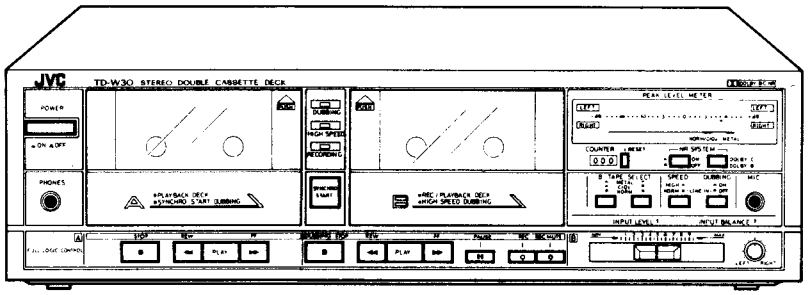
JVC

SERVICE MANUAL

STEREO DOUBLE CASSETTE DECK

MODEL TD-W30 A/B/C/E/G/J/U



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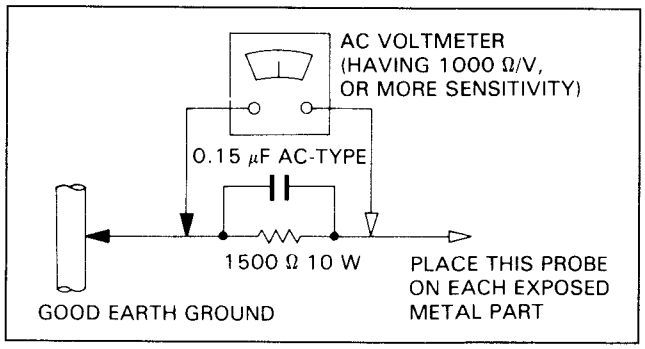
Safety Precautions

1. The design of this product contains special hardware. Many circuits and components specially for safety purposes.
   For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Repacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. Electrical components having such features are identified by (⚠) on the schematics and parts list in Service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list in Service manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and/or the like to be separated from live parts, high temperature part, moving parts and/or sharp edges for the prevention of electric shock and fire hazard.
   When service is required, the original lead routing and dress should be observed, and they should be confirmed to be returned to normal, after re-assembling.
5. Leakage current check
   (Safety for electrical shock hazard)
   After re-assembling the product, always perform an isolation check on the exposed metal parts of the Products (antenna terminals, knobs, metal cabinet, screw heads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

   Do not use a line isolation transformer during this check.
   - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5 mA AC (r.m.s.).
   - Alternate check method.
     Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1500 Ω 10 W resistor paralleled by a 0.15 μF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.)
     Measure the AC voltage across the resistor with the AC voltmeter.
     Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.).
     This corresponds to 0.5 mA AC (r.m.s.).

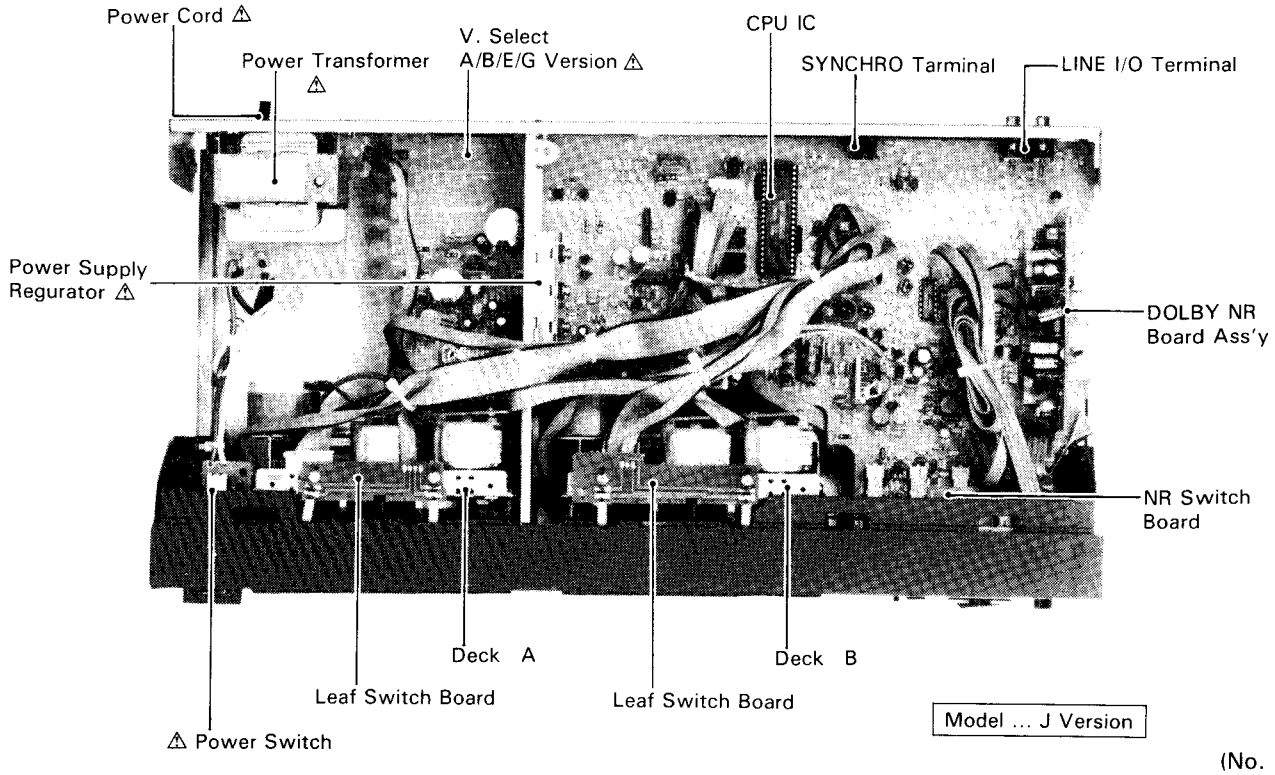


Specifications

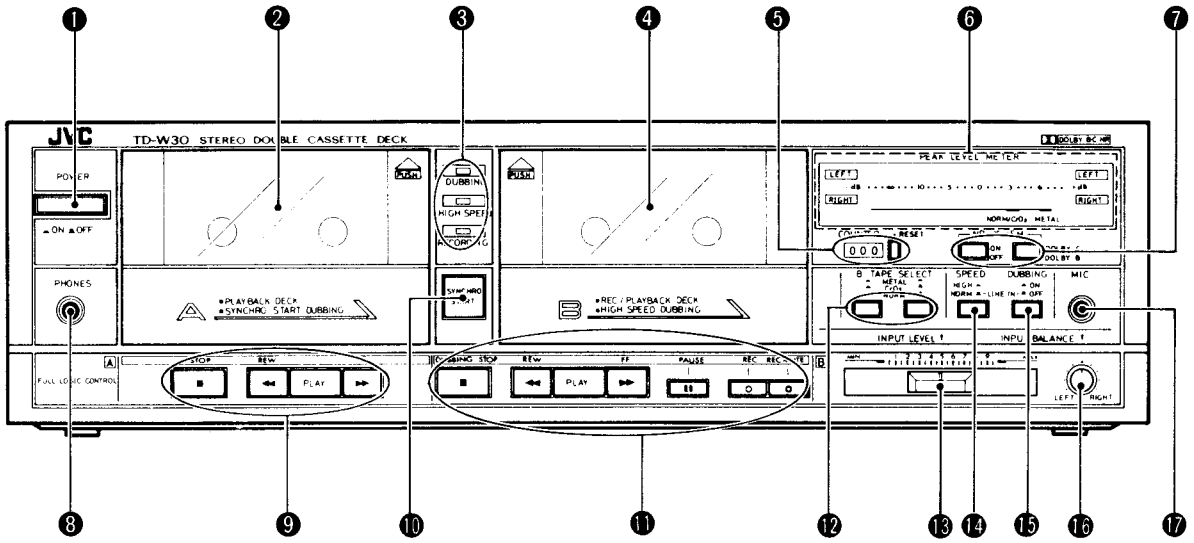
Type	: Stereo double cassette deck
Track system	: 4-Track, 2-channel
Tape speed	: 1-7/8 inch/sec. (4.8 cm/sec.)
Frequency response	
(0 dB recording)	: Metal tape; 30—123,500 Hz (±3 dB) Chrome tape; 30—8,000 Hz (±3 dB) Normal tape; 30—8,000 Hz (±3 dB)
(—20 dB recording)	: Metal tape; 20—17,000 Hz (DIN 45 500) 30—16,000 Hz (±3 dB) Chrome tape; 20—17,000 Hz (DIN 45 500) 30—16,000 Hz (±3 dB) Normal tape; 20—16,000 Hz (DIN 45 500) 30—15,000 Hz (±3 dB)
S/N ratio	: 58 dB (S=1 kHz, K3=3%, N=A-weighted, Metal tape) the S/N is impoved by about 15 dB at 500 Hz and by max. 20 dB at 1 kHz~10 kHz with Dolby C NR on and improved by 5 dB at 1 kHz and by 10 dB at above 5 kHz with Dolby B NR on.
Improvement of MOL	: 4 dB at 10 kHz with Dolby C NR on.
Wow and flutter	: 0.08% (WRMS), 0.2% (DIN 45 500)
Channel separation	: 40 dB (1 kHz)
Crosstalk	: 55 dB (1 kHz)
Harmonic distortion	: K3; 0.5%, THD; 1.0% (metal tape, 1 kHz 0 VU)
Heads	: Deck A; METAPERM head for playback Deck B; METAPERM head for recording/playback, 2-gap ferrite head for erasure
Motors	: Electronic governed DC motor for capstan/reel×1, DC motor for FF/REW×1 DC motor for mechanic drive×1 (For both decks A and B)
Fast forward/Rewind time	: Approx. 95 sec. with C-60 cassette
Input terminals	
MIC×1 (mono)	: Max. sensitivity; 0.8 mV (—62 dBV) Matching impedance; 600 Ω—10 kΩ
LINE IN×2	: Min. input level; 80 mV Input impedance: 50 kΩ
Output terminals	
LINE OUT×2	: Output level; 300 mV Output impedance; 5 kΩ
PHONES×1	: Output level; 0.3 mW/8 Ω Matching impedance 8 Ω—1 kΩ
Other terminals	: Synchro×2
Power requirement	: AC 240/220/120 V, 50/60 Hz (TD-W30A/B/E/G), AC 120V, 60 Hz (TD-W30C/J), AC 230/127/110 V, 50/60 Hz (TD-W30U)
Power consumption	: With power on 14 W
Dimensions	: 17-1/8″ (435 mm) H 4-3/4″ (119 mm)H 9″ (229 mm) D
Weight	: 9.5 lbs (4.3 kg)

Design and specifications are subjnect to change without notice.

Location of Main Parts



Name of Controls and Thire Functions



❶ **POWER switch**

❷ **Cassette holder (deck A)**

❸ **Indicators**

DUBBING:
This lights to indicate that the unit is in the dubbing mode.

HIGH SPEED:
This lights when the SPEED switch is set to HIGH (▬).

RECORDING:
Lights when deck B is in the recording and record-pause mode.

❹ **Cassette holder (deck B)**

❺ **TAPE COUNTER and RESET button**

❻ **PEAK LEVEL INDICATOR**
These indicate the recording level during recording and output level during playback. The LED indication varies with the signal strength during recording and playback.

❼ **NR SYSTEM switches**
The left switch switches on and off the noise reduction circuits and the right switch selects which noise reduction system (Dolby B NR or Dolby C NR) is to be used.

❽ **Headphone jack (PHONES)**
Connect headphones (with an impedance of 8 ohms to 1 k-ohm).

❾ **Cassette operation keys (deck A)**

■ **STOP:**
Press to stop the tape.

◄◄ **REW (rewind):**
Press to rewind the tape.

PLAY:
Press to play the tape.

►► **FF (fast forward):**
Press to fast forward the tape.

❿ **SYNCHRO START button**
Press this button when performing synchro dubbing. Do not press this button other than for this purpose.

⓫ **Cassette operation keys (deck B)**

■ **(stop)/DUBBING STOP:**
Press to stop the tape. Also press to stop both decks simultaneously during dubbing.

◄◄ **REW (rewind):**
Same ad deck A.

PLAY:
Press to play back or record the tape.

►► **FF (fast forward):**
Same as deck A.

❚❚ **PAUSE:**
Press to stop the tape temporarily during recording and playback. Press the PLAY key to release the pause mode.

○ **REC:**
Press the PLAY key while pressing this key for recording.

O REC MUTE:
Press to leave an appropriate non-recorded section. (Refer to the attached sheet.)

⓬ **TAPE SELECT switches (deck B)**
When recording or playing back on deck B, select the correct setting according to the type of tape used.

⓭ **INPUT LEVEL control**
Adjust the recording level with this control.

⓮ **SPEED switch**
Used to switch the tape speed when dubbing.
(▬) HIGH:
For double-speed dubbing.
(▬) NORM:
For normal-speed dubbing. Moreover, this is required when recording from the LINE IN input or MIC jacks. Set to this position except during double-speed dubbing.

⓯ **DUBBING switch**
Set to ON (▬) when dubbing from deck A to deck B.

⓰ **INPUT BALANCE control**
Adjsut the balance between the left and right channels of recording input levels. The center click position is the standard position.

⓱ **Microphone jack**
Connect a microphone (impedance of 600 Ω to 10 kΩ). The microphone sound is monaural.

Synchronized recordings with a CD player

Connect the SYNCHRO jacks of this unit and CD player with the remote wire to perform synchro recording

Procedure

1. Set the deck to the stop mode and then press the ○ REC and ❚❚ PAUSE keys simultaneously to set to the record-pause mode.
2. Select the tunes to be recorded form the CD player.
3. Press the PLAY button of the CD player.

The unit starts recording automatically with the above operations. A non-recorded section on the tape being used is automatically left and the edited recordings of tunes are performed.

Note:
Be careful; synchronized recording does not start except when the record-pause mode is set by simultaneously pressing the ○ REC and ❚❚ PAUSE keys in the stop mode.

Dubbing

Synchro dubbing procedure

1. Press the POWER switch ❶ to ON (▬).
2. Insert a pre-recorded tape ❷.
3. Insert the tape to be recorded on.
4. Set the DUBBING switch ⓯ to ON (▬).
5. Set the SPEED switch ⓮ to NORM (▬) when performing normal-speed dubbing and to HIGH (▬) when performing double-speed dubbing.
6. Set the TAPE SELECT switches ⓬ to match the types of tapes used.
7. Press the SYNCHRO START key ⓾ to start dubbing.
8. Press the ■ DUBBING STOP key ⓫ of deck B to stop dubbing. When deck B enters the auto-stop mode, dubbing will be released automatically.
9. After dubbing, set the DUBBING switch ⓯ to OFF (▬) and the SPEED switch ⓮ to NORM (▬).

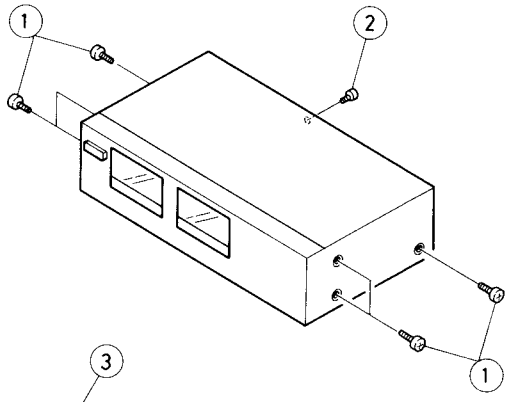
- **Synchro record muting**
during dubbing, when deck A enters the stop mode or any mode other than the playback mode, deck B enters the record-pause mode automatically after performing the record mute operation.

Removal of Main Parts

Enclosure Assembly Section

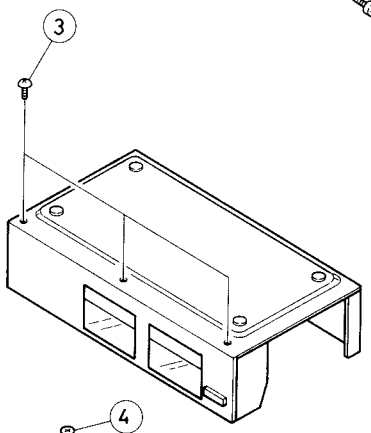
Top Cover

1) Remove six screws (1) retaining the both sides of the top cover.
2) Remove one screw (2) retaining the back side of the top cover.



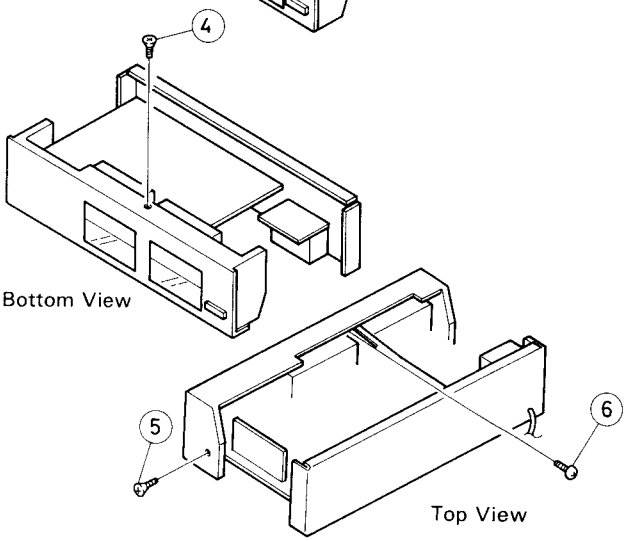
Bottom Cover

1) Remove three screws (3) retaining the front side of the bottom cover.
2) To remove three pawls, slide off the bottom cover to back side.



Front Cover Ass'y

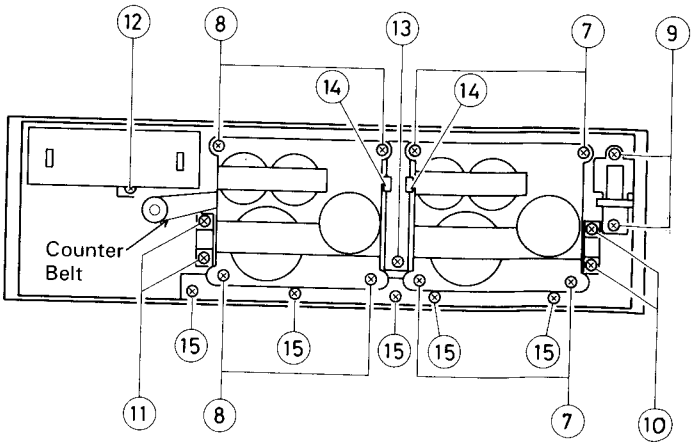
1) Remove one screw (4) retaining the center of the front cover bottom side.
2) Remove one screw (5) retaining the main board from right side.
3) Remove one screw (6) retaing to center chassis from front cover inside.



Front Cover Ass'y Parts

(Deck A)

1) Remove four screws (7) retaining the deck [A].
2) Open the cassette door, and drow out the mechanism.



(Deck B)
1) Remove counter belt from counter.
2) Remove four screws (8) retaining the deck [B].
3) Open the cassette door, and drow out the mechanism.
Note:
When reassembling the mechanism assembly, install the counter belt.

Power Switch and H. Phone Jack Ass'y
1) Remove two screw (9) retaining switch bracket.
2) Remove the power switch knob from power switch.
3) Drow out to front side.

Damper
Deck [A].
Remove two screws (10).
Deck [B].
Remove two screws (11).

Counter Ass'y
Remove one screws (12).

Indicator and Switch Board
1) Remove one screw (13) retaining the board Ass'y.
2) Disengage two clows (14) retaining the both side of board Ass'y.

Volume Board Ass'Y
Cassette Holder
1) Disengage the cassette holder spring from cassette door.
2) Remove the cassette holder from the front panel by disengaging its fulcrums on the both side.

Note
When reassembling the cassette holder, set the holder spring in the spring shaft of the holer prior to reassembly.

Mechanism Operating Switch
1) Remove the deck [A] and [B].
2) Remove the damper holder Ass'y for deck [A] and deck [B].
3) Remove the cassette holder.
4) Remove five screws (15) retaining the switch board.

Mechanism Section

1. PB Head and Rec/PB Head. (Deck [A] and [B])

1) Remove one screw (a) retaining the right side of head.
2) Loosen the screw (b), and pull off the head.

2. Dummy Head and Erase Head. (Deck [A] and [B])

Remove two screws (c) and (d) retaining the dammy head and erase head.

3. Pinch Roller Ass'y

Remove the pincher on the chassis below the pinch roller by pressing it toward the head and pulling it upward.

4. Reel Deck Ass'y

Remove reel stopper (f).
The hole IC can be replaced by pulling out reel disk Ass'y. When the hole IC's lead wire is in contact with the board, the gap size can be secured.

Note:
Once the reel stopper is removed, it cannot be used again. Use a new reel stopper.

5. Capstan Motor

Remove the two screws (g) securing the FM bracket.

6. Reel Motor and Cam Switch

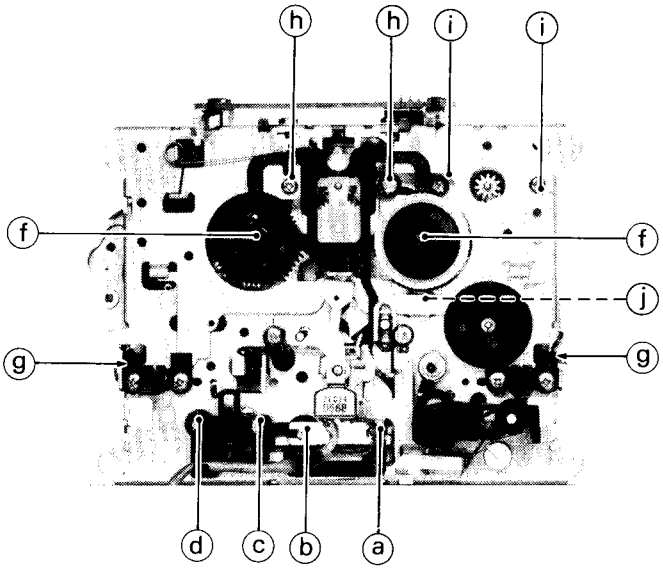
1) Remove the two screws (h) securing the reel motor.
2) Remove the two screws (i) securing the cam switch.

Note:
When reassembling, align the position setting pin of the reel disk base unit with the position setting of the motor.

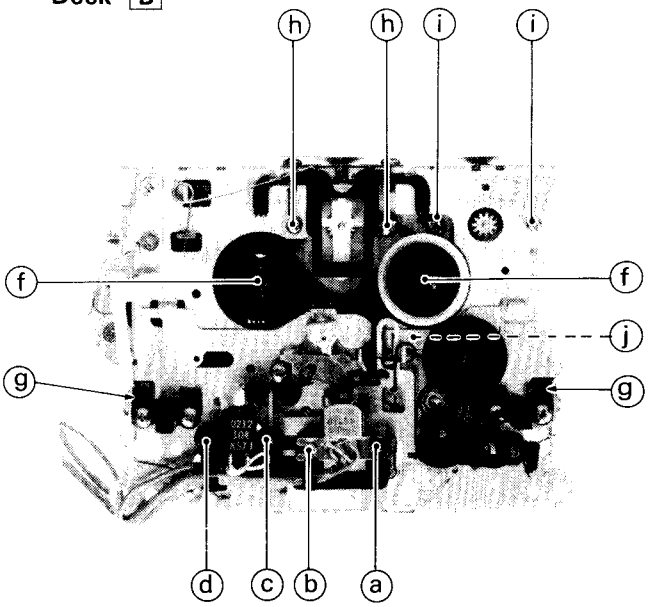
7. Reel disk base unit

1) Remove the reel motor, can motor, and flywheel.
2) Remove screw (j).

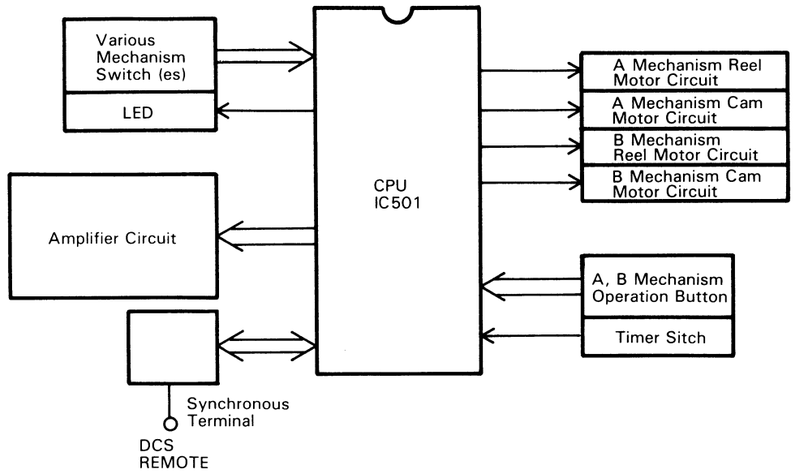
Deck [A]



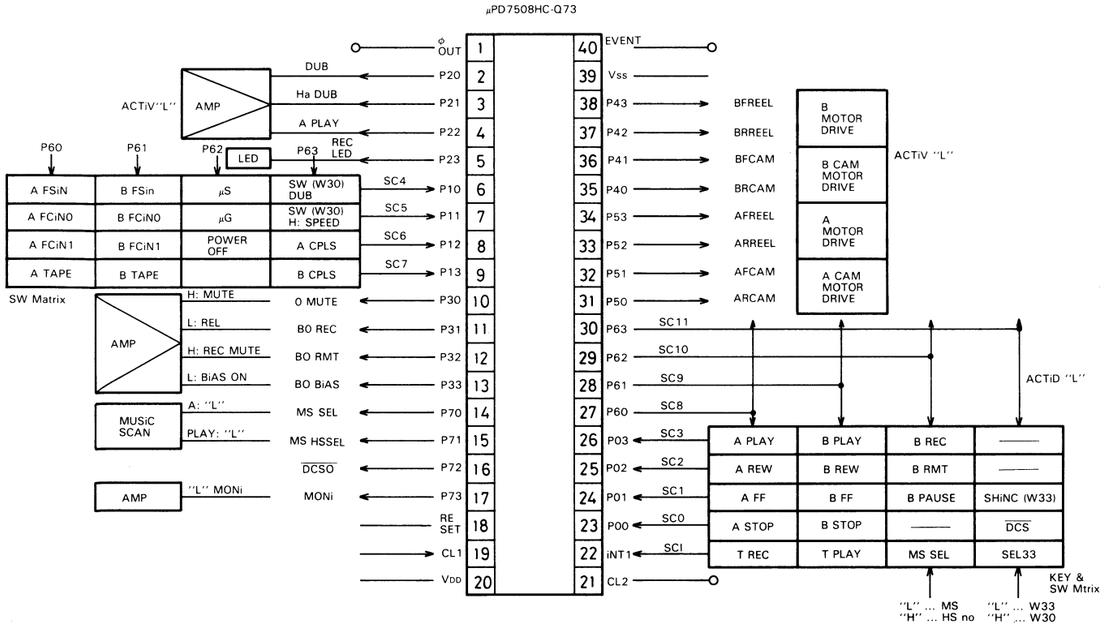
Deck [B]



IC (C.P.U.) Pin Function



I/O Port Connection

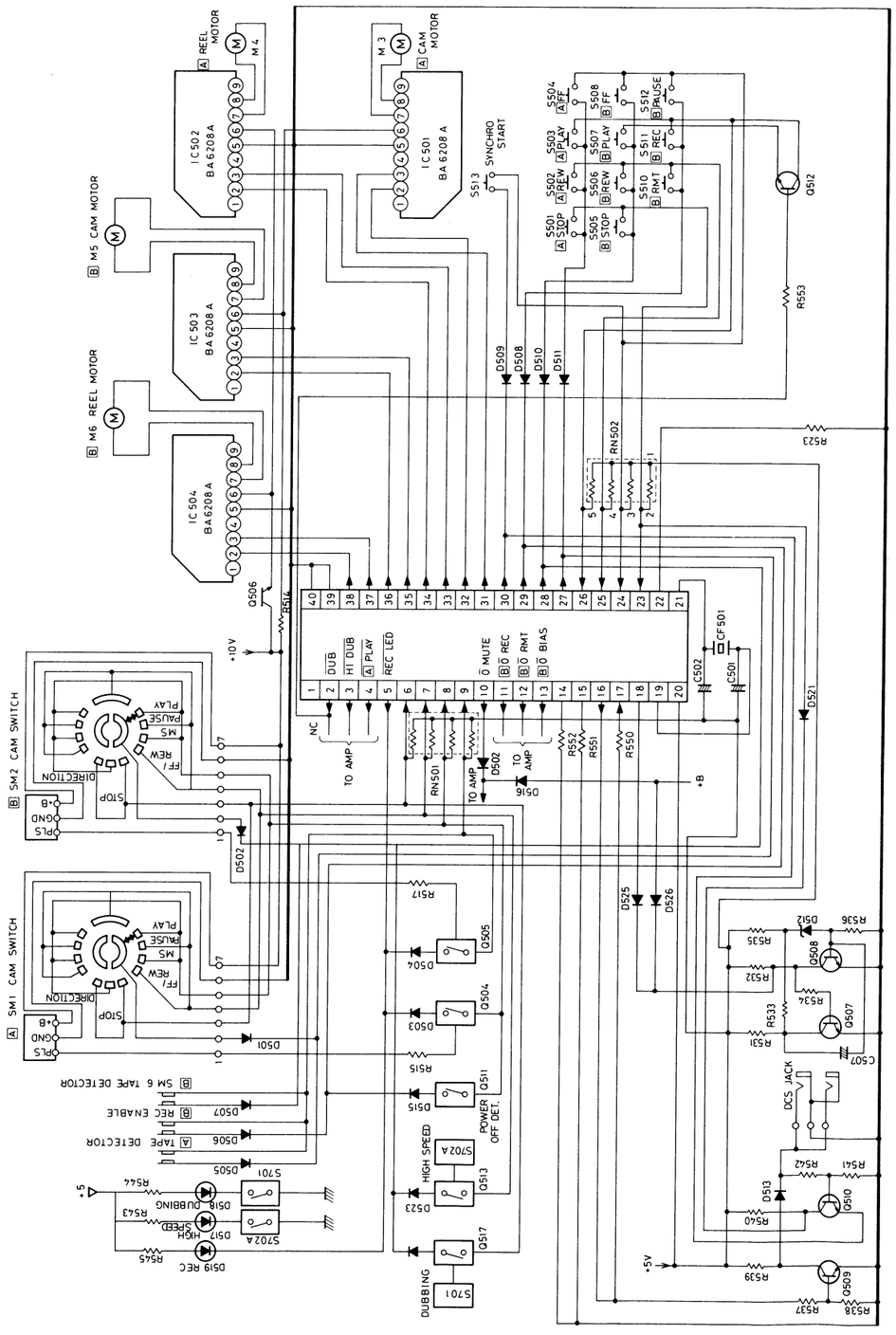


Pin Functions (Function chart of pins of mechanism control microprocessor (UPD7508HC-073))

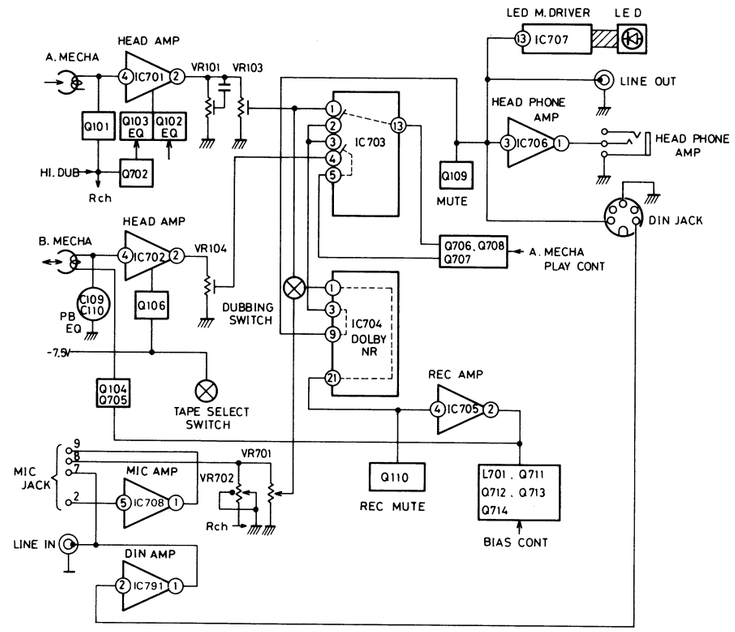
Pin Symbol	Pin No.	Pin Name	Function (Active)
0 OUT	1	—	not used
P20	2	DUB	DUBBING mode output/DUBBING LED (Lights at L)
P21	3	HI DUB	High speed DUBBING output/Hi DUBBING LED (Lights at L)
P22	4	A PLAY	Deck A mute control output (Deck A mute operate at H)
P23	5	REC LED	REC LED output (Light at L)
P10	6	SC4	Dynamic scan input ports (Detection at L)
P11	7	SC5	
P12	8	SC6	
P13	9	SC7	
P30	10	O MUTE	LINE OUT mute control output (LINE OUT mute at H)
P31	11	B O REC	Rec/play switching control output
P32	12	B O RMT	Rec signal control outpu (REC mute at H)
P33	13	B O BIAS	BIAS oscilator control output (BIAS on at H)
P70	14	MS SEL	MUSIC SCAN Deck A and Deck B switching control output (Deck A at L)
P71	15	MS Hs SEL	MUSIC SCAN LOW/HIGH speed switching control output (LOW speed at L)
R72	16	$\overline{\text{DCSO}}$	Direct call system date output
R73	17	MONI	Moniter switching control output (MONI at L)
—	18	RESET	Microprocesser reset terminal
—	19	CL1	Internal clock oscillation circuit terminal
—	20	VDD	Power supply terminal (+5 V)
—	21	CL2	Same at CL1
SCI	22	INT1	Condition input ports for switches (dynamic scan input ports) (when selected at L)
PO0	23	SCO	
PO1	24	SC1	
PO2	25	SC2	
PO3	26	SC3	Selection output ports for switches (dynamic scan output ports) (when selected at L)
P60	27	SC4	
P61	28	SC5	
P62	29	SC6	
P63	30	SC7	
P50	31	A R CAM	Deck A can motor control output (CAM motor on at L)
P51	32	A F CAM	
P52	33	A R REEL	Deck A reel motor control output (REEL motor on at L)
P53	34	A F REEL	
P40	35	B R CAM	Deck B cam motor control output (CAM motor on at L)
R41	36	B R CAM	
P42	37	B R REEL	Deck B reel motor control output (REEL motor on at L)
P43	38	B F REEL	
Vss	39	GND	Connected to GND
—	40	EVENT	not used.

Block Diagram

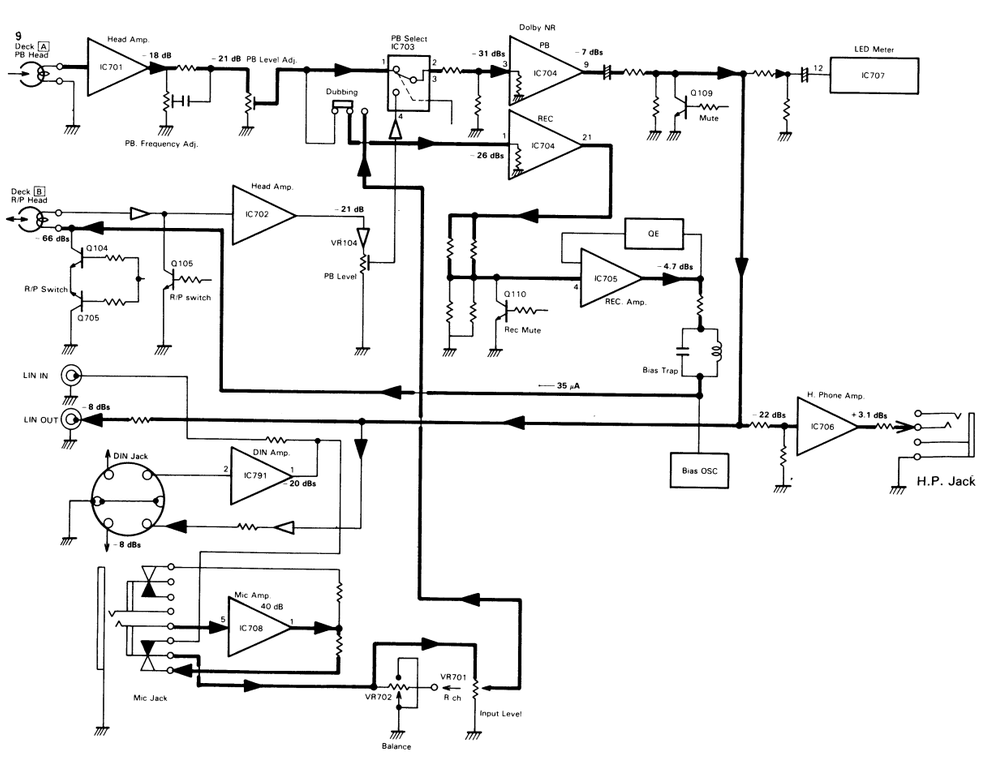
Block Diagram (Mechanism Section)



(Amp. Section)



Level Diagram



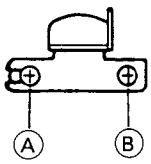
Main Adjustments

1. Equipment and measuring instruments used for adjustments

1) Electronic voltmeter
2) Audio frequency oscillator
   (range: 50—20 kHz and output 0 dB with impedance of 600 Ω)
3) Attenuator (impedance; 600 Ω)
4) Standard tapes for REC/PB
   Maxell UD-1 — Normal (SF) tape
   TDK SA — Chrome (SA) tape — or equivalent
   JVC ME — Metal tape
5) Reference tape for playback (JVC Test Tape)
   TMT6451 (or VTT712) (for tape speed, wow flutter adj.)
   VTT644 (or VTT724) (for playback level)
   VTT739 (for playback frequency response)
   VTT703 (10 kHz) (for head azimuth adj.)
6) Resistor 600 Ω (for attenuator matching)
7) Distortion meter (bandpass filter)
8) Torque testing cassette gauge, CGT-N
9) Wow flutter meter
10) Frequency counter

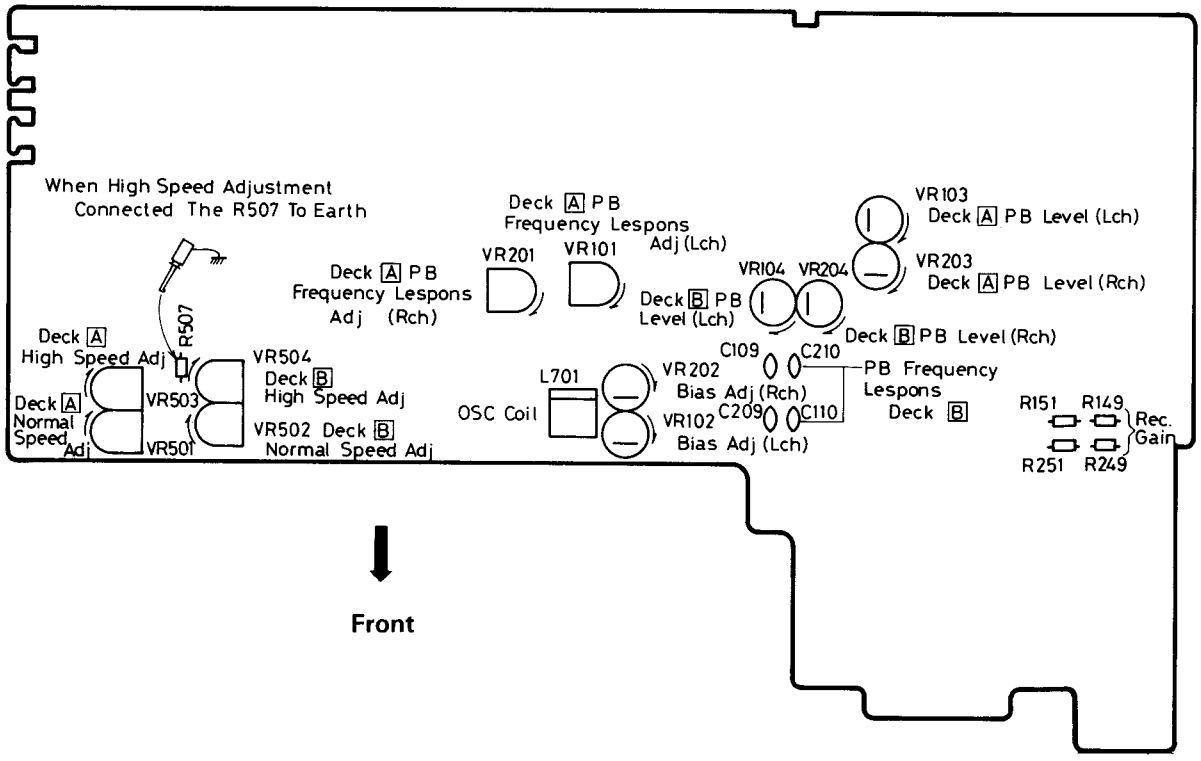
2. Mechanism adjustment proceder

Item	Adjustment	Adjusting point	Standard value	Remarks
Adjusting motor speed	1. Connect a frequency counter to the LINE OUT terminals. 2. Play back the TMT6451 (or VTT-655A) test tape. 3. Adjust for deck [A]: Adjust VR501 for normal speed at 3000 Hz, and VR503 for high speed at 6000 Hz. Adjust for deck [B]: Adjust VR502 for normal speed at 3000 Hz, and VR504 for high speed at 6000 Hz.	Deck [A]: Normal; VR501 High; VR503 Deck [B]: Normal; VR502 High; VR504	Normal speed: Deck [A]; 3000 Hz Deck [B]; 3000 Hz High speed: Deck [A]; 6000 Hz Deck [B]; 6000 Hz	For adjusting high speed, R507 should be grounded. Adjust high speed after perform normal speed.
Checking wow and flutter	Connect a wow and flutter meter to LINE OUT terminals. Play back the TMT6451 (or VTT712) test tape. Check to see if the reading of the meter is within 0.13% (WRMS).		0.13% (WRMS)	If the reading becomes moveing value even if confirming to the standard, a re-claim may be raised. Reparis are necessary.
Checking playback torque	Employ a torque testing cassette tape for the checking, or remove the cassette cover and use a torque gauge.		35—75 gr-cm	If the standard torque is not obtained, replace the take-up disk assembly.
Checking fast forward torque	Measure the torque in the fast forward mode in the same manner as in the above.		70 g—200 gr-cm	If the standard torque is not obtained, perform the following. 1. Clean the capstan belt, the idler circumference, the motor pulley, the take-up reel disk circumference, the flywheel circumference, etc. 2. Replace the belt and idler.
Checking rewind torque	Measure the torque in the rewind mode in the same manner as in the above.		70 g—200 gr-cm	If the standard torque is not obtained, clean the capstan belt, idler, motor pulley, flywheel circumference, rewinding idler circumference, left reel disk circumference, etc.

Item	Adjustment	Adjusting point	Standard value	Remarks
Checking auto-stop operation	Play back the tape. In playback mode, check that the tape run stops within 3 sec. at the end of the tape. In fastforward or rewind mode, check that the tape stops within 5 sec. at the tape end.		Play mode: within 3 sec. FF/REW mode: within 5 sec.	
Adjusting REC/PB head azimuth 	1. Connect an electronic voltmeter to the LINE OUT terminals. 2. Play back the VTT703 test tape. 3. Adjust the head angle with the screw A until the reading of the electronic voltmeter becomes maximum for both channels. 4. After adjusting, set the screw with screw bond.	Screw A (left side) each Deck [A] Deck [B]	Maximum	If the head is worn, disconnected or exceedingly magnetized so as not to provide the necessary characteristics, replace it with a new one. After replacement, the head position adjustment as well as the playback level adjustment, the bias current adjustment and the recording level adjustment are all necessary. If the output difference between the left and right channels exceeds 3—4 dB, the head is defective. Replace it with a new one.

3. Electrical adjustments location

- **Main Amp. P.W. Board (parts assembly side view)**
  (Turning in the direction of the arrow increases the level.)

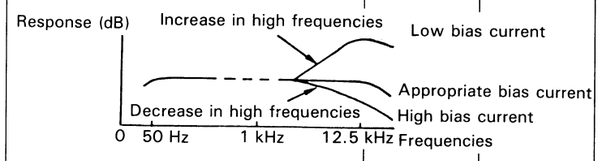


4. Electrical circuit adjustment procedure

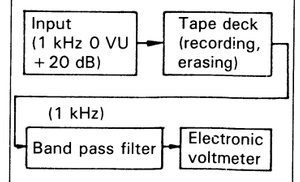
Perform the tape transport checks and head azimuth adjustment before following checks and adjustments.
Adjustment should be performed in the order of alignment steps.
In the steps marked with an asterisk (*), adjustment should be performed after replacing the heads.
Perform this adjustment with the NR switch set to OFF.

Step	Item	Check and Adjustment			
				Input signal (Frequency, level)	Output raise value, deviation value
1	Checking DOLBY circuit (Rec mode) (BIAS, CUT)	Signal input LINE IN Cal. level: 400 Hz, −8 dBs Output terminal: NR IC 7 Pin (L) 36 Pin (R)	DOLBY B (Rec)	1 kHz, Cal. −40 dB	+5.7 dB ± 2 dB
				5 kHz, Cal. −20 dB	+3.5 dB ± 1.5 dB
				1 kHz, Cal.	0 dB ± 0.5 dB
			DOLBY C (Rec)	1 kHz, Cal. −40 dB	+16.2 dB ± $^{+3}_{-2}$ dB
				5 kHz, Cal. −20 dB	+2.9 dB ± 2.5 dB
				1 kHz, Cal.	0 dB ±1 dB

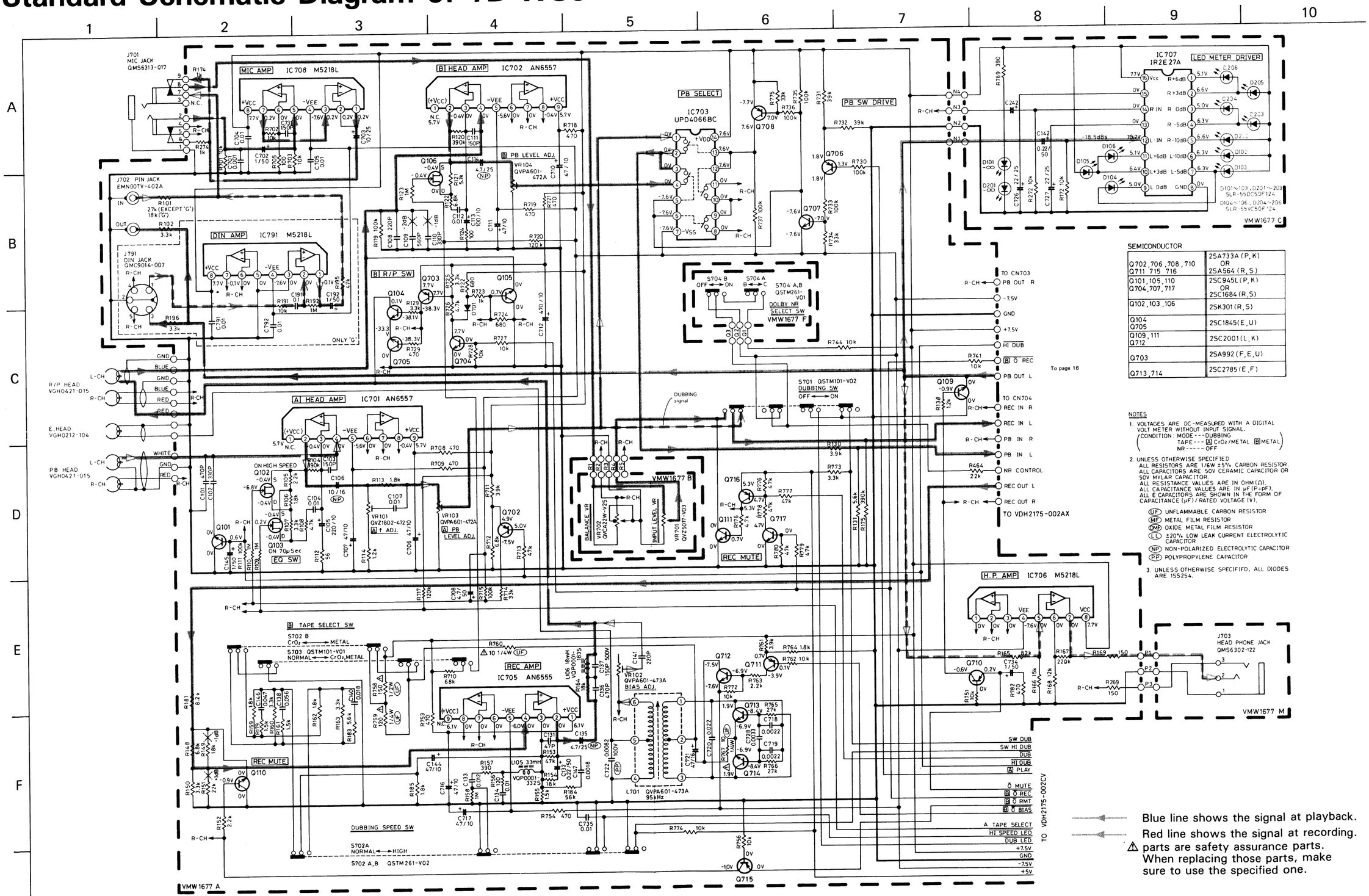
Step	Item	Adjustment	Adjusting point	Standard value	Remarks
*2	Confirming playback gain	Play back VTT724, then confirm that the level at LINE OUT is [A] −8 dBs ±1 dB, [B] −8 dBs±1 dB	Deck A L: VR103 R: VR203 Deck B L: VR104 R: VR204	[A] −8±1 dBs [B] −8±1 dBs	
*3	Playback frequency response	Deck A: Play back VTT739, then confirm that the level of 1 kHz and 10 kHz signals is 0±2 dB. Deck B: Before adjustment, disconnect C109, C110 (L-ch) and C209, C210 (R-ch) so that the outputs of 1 kHz and 10 kHz signals are flat.	Deck A L: VR101 R: VR201 Deck B L: C109 C110 R: C209 C210	Deck A: 0±2 dB Deck B: 0±2 dB	C109,209 cut by −2 dB C110,210 cut by −1 dB
*4	Adjusting bias frequency	Connect the frequency counter to the C722 Lead through a 1.2 MΩ resister, then adjust L701 so that the counter reads 95 kHz.	L701	95 kHz ±10%	METAL Position
*5	Recording frequency response	1) NR switch: OFF 2) Record a 1 kHz signal at an input reference level of −20 dB, then record 50 Hz and 10 kHz signals and play them back. At this time, adjust VR102 and VR202 so that the deviation of 50 Hz and 10 kHz outputs satisty the standard values with respect to 1 kHz output.	For Normal tape L: VR102 R: VR202	With respect to 1 kHz reference: At 50 Hz, 0±3 dB; At 10 kHz 0±3 dB	CrO_2 50 Hz 0±3 dB 10 kHz 0±4 dB Metal 50 Hz 0±3 dB 10 kHz 0±3 dB



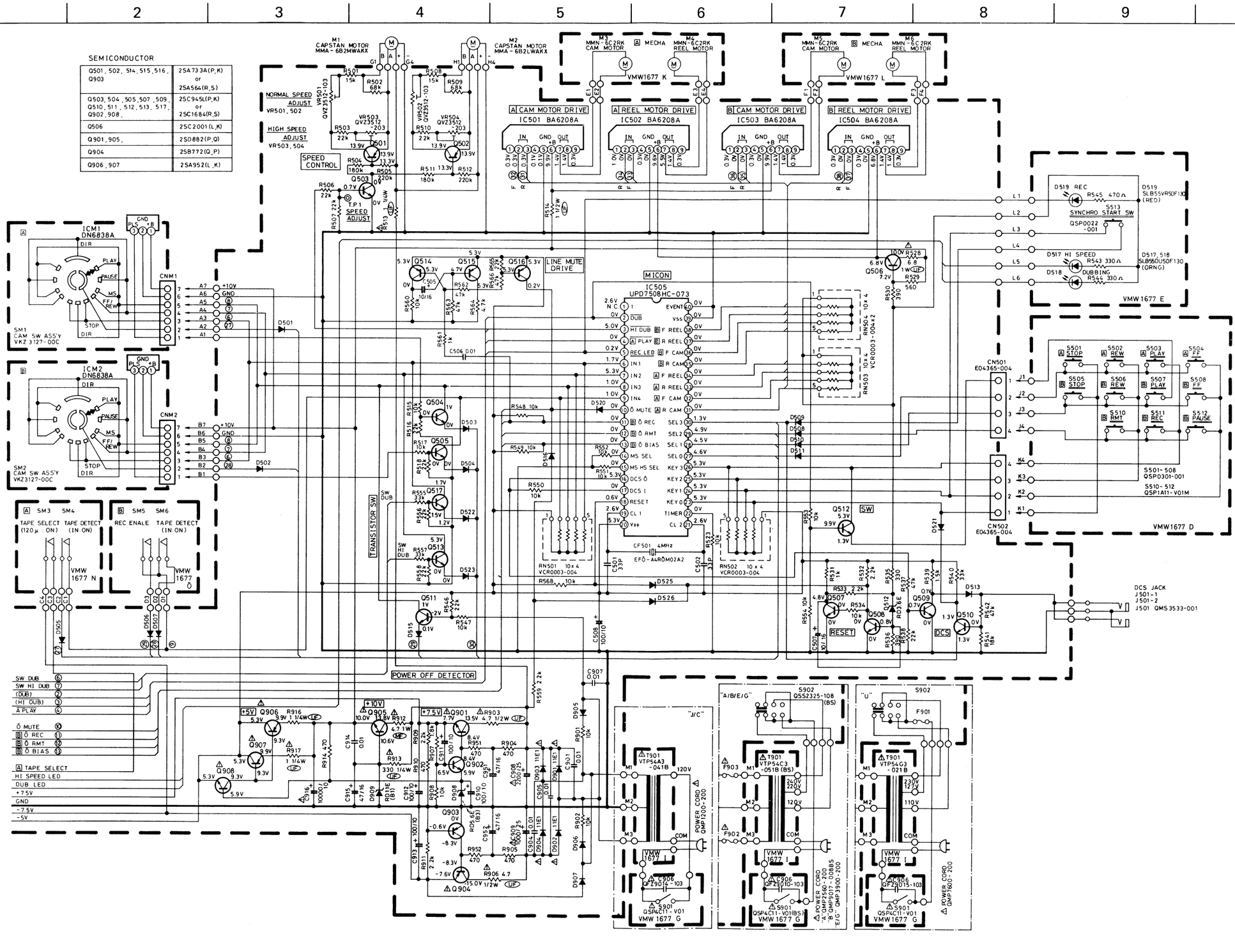
Step	Item	Adjustment	Adjusting point	Standard value	Remarks
*6	Recording gain	1) Apply a 1 kHz signal to the LINE IN terminals, record a 1 kHz signal at 0 dB input for both (L and R) channels on a normal tape. 2) Play back the recorded part, and adjust the recording level controls so that LINE OUT terminal level becomes −8 dBs with peak level indicator reading 0. Cuting resistor (R149, R151, R249, R251) Then adjust so that LINE OUT terminal level becomes −8 dBs.	For Normal tape: L: R149 R151 R: R249 R251	−8± 1.5 dBs CrO_2 −8±2 dBs Metal −8±2 dBs	Perform the adjustment using a normal tape. level difference between recording and playback for VX/CrO_2 and metal tapes should be less than 1.5 dB, and that between left and right channels should also be less than 1 dB. L: R:
*7	Checking record/ playback distortion	1) Record a 1 kHz, −8 dB signal to LINE IN terminals and perform recording with the peak level indicator reading 0. 2) Play back the recorded part. Check the output with a distortion meter to see if the value conforms to the standard value.		Normal tape: Less than 2% CrO_2 tape: Less than 3% Metal tape: Less than 2% (THD)	Be sure to perform this checking following bias current and recording level checking.
8	Checking signal to nosie ratio in recording/ playback	1) Record a 1 kHz, 0 dB signal. Stop the input by disconnecting from the terminal to perform non-signal recording. 2) Play back the recorded part. Measure the 0 dB recording output and the non-signal recording output for comparison using an electronic voltmeter. Check to see if the value conforms to the standard value.		Normal, CrO_2 & Metal tapes: More than 42 dB	Apply an input level to LINE IN terminals with the recoprding level controls set to maximum so that the peak level indicator reads 0 dB.
9	Checking erasing coefficient	1) Apply a 1 kHz signal to the LINE IN terminals. Adjust the recording level controls until the peak level indicator reads 0 dB. 2) Perform recording with the signal enhanced by 20 dB. 3) Erase a part of the recording. 4) Measure the output difference between the erased part and non-erased part to compare with an electronic voltmeter.		More than 60 dB	For the measurement using a metal tape, connect a band pass filter between the deck and the electronic voltmeter.



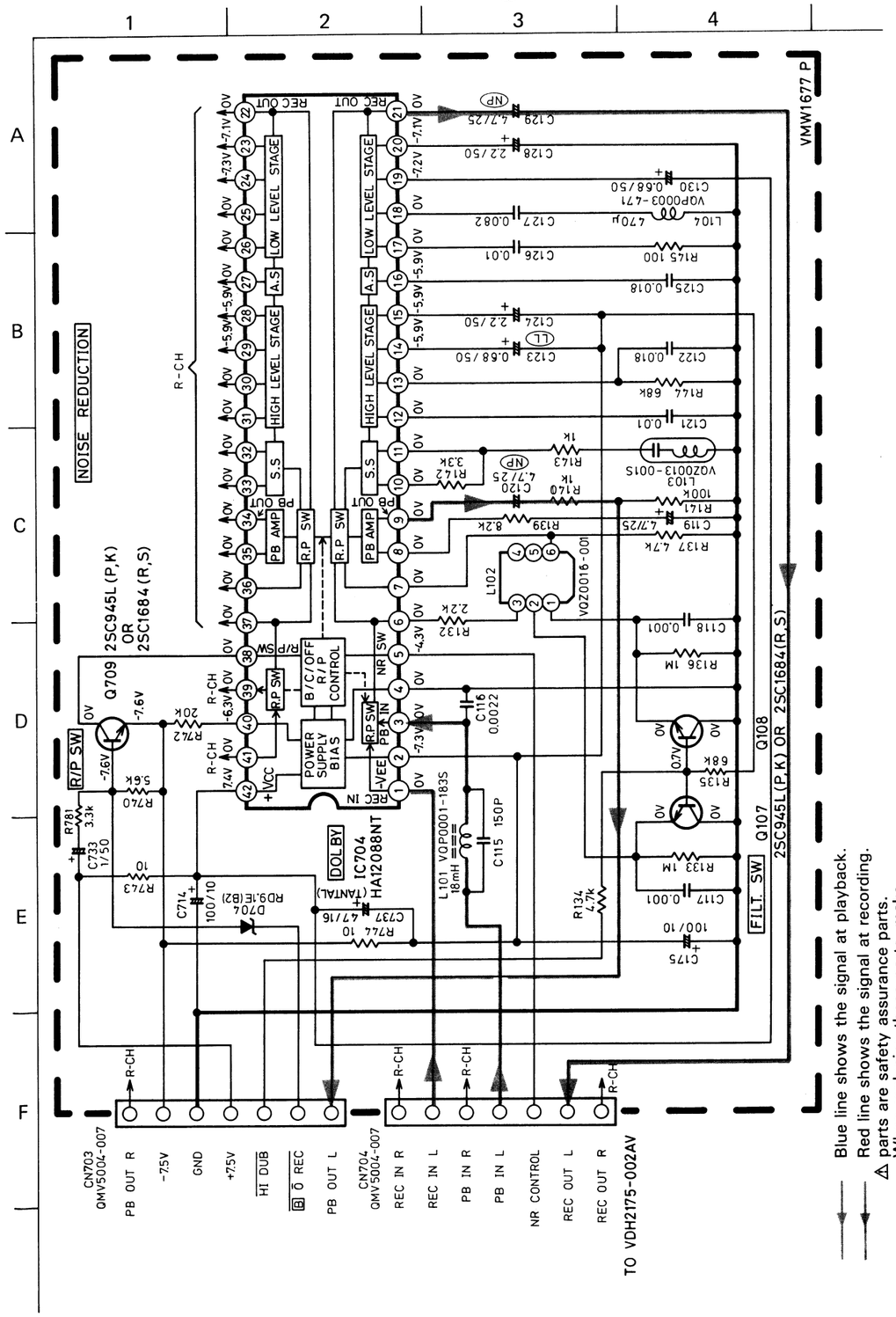
Standard Schematic Diagram of TD-W30


MIC AMP IC708 M5218L
B HEAD AMP IC702 AN6557
PB SELECT
IC703 UPD4066BC
PB SW DRIVE
IC707 1R2E27A
LED METER DRIVER
DIN AMP IC791 M5218L
B R/P SW
A HEAD AMP IC701 AN6557
B PB LEVEL ADJ.
VR104 QVPA601-472A
REC AMP IC705 AN6555
H.P AMP IC706 M5218L
EQ SW
REC MUTE
DUBBING SPEED SW
S704 B S704 A S704 A,B QSTM261-901 DOLBY NR SELECT SW VMW1677 F
S701 QSTM101-V02 DUBBING SW
S702 B S703 QSTM101-V01 B TAPE SELECT SW
VMW1677 B
VMW1677 C
VMW1677 M
VMW1677 A
TO CN703
TO CN704
TO VDH2175-002AX
TO VDH2175-002CV
To page 16
SEMICONDUCTOR
Q702,706,708,710 Q711 715 716 2SA733A(P,K) OR 2SA564(R,S)
Q101,105,110 Q704,707,717 2SC945L(P,K) OR 2SC1684(R,S)
Q102,103,106 2SK301(R,S)
Q104 Q705 2SC1845(E,U)
Q109,111 Q712 2SC2001(L,K)
Q703 2SA992(F,E,U)
Q713,714 2SC2785(E,F)
NOTES
1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL. (CONDITION: MODE---DUBBING TAPE---A CrO2/METAL B METAL NR----OFF)
2. UNLESS OTHERWISE SPECIFIED ALL RESISTORS ARE 1/6W ±5% CARBON RESISTOR. ALL CAPACITORS ARE 50V CERAMIC CAPACITOR OR 50V MYLAR CAPACITOR. ALL RESISTANCE VALUES ARE IN OHM(Ω). ALL CAPACITANCE VALUES ARE IN μF(P=pF). ALL E CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE (μF) / RATED VOLTAGE (V).
UF UNFLAMMABLE CARBON RESISTOR
MF METAL FILM RESISTOR
OMF OXIDE METAL FILM RESISTOR
LL ±20% LOW LEAK CURRENT ELECTROLYTIC CAPACITOR
NP NON-POLARIZED ELECTROLYTIC CAPACITOR
PP POLYPROPYLENE CAPACITOR
3. UNLESS OTHERWISE SPECIFIED, ALL DIODES ARE 1SS254.
Blue line shows the signal at playback.
Red line shows the signal at recording.
⚠ parts are safety assurance parts. When replacing those parts, make sure to use the specified one.

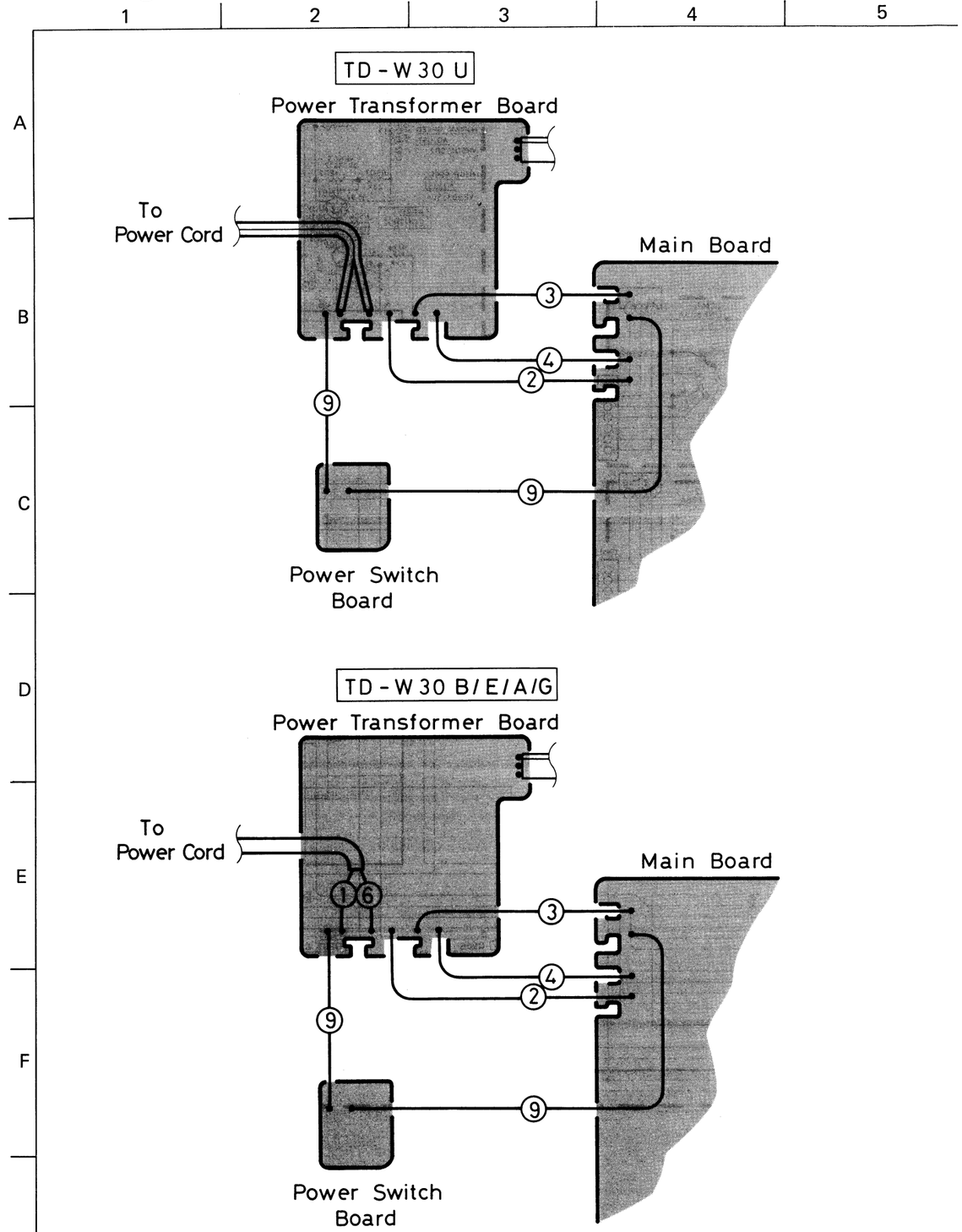
SEMICONDUCTOR	
Q501, 502, 514, 515, 516, Q903	2SA733A(P,K) or 2SA564(R,S)
Q503, 504, 505, 507, 509, Q510, 511, 512, 513, 517, Q902, 908,	2SC945L(P,K) or 2SC1684(R,S)
Q506	2SC2001(L,K)
Q901, 905,	2SD882(P,Q)
Q904	2SB772(Q,P)
Q906, 907	2SA952(L,K)



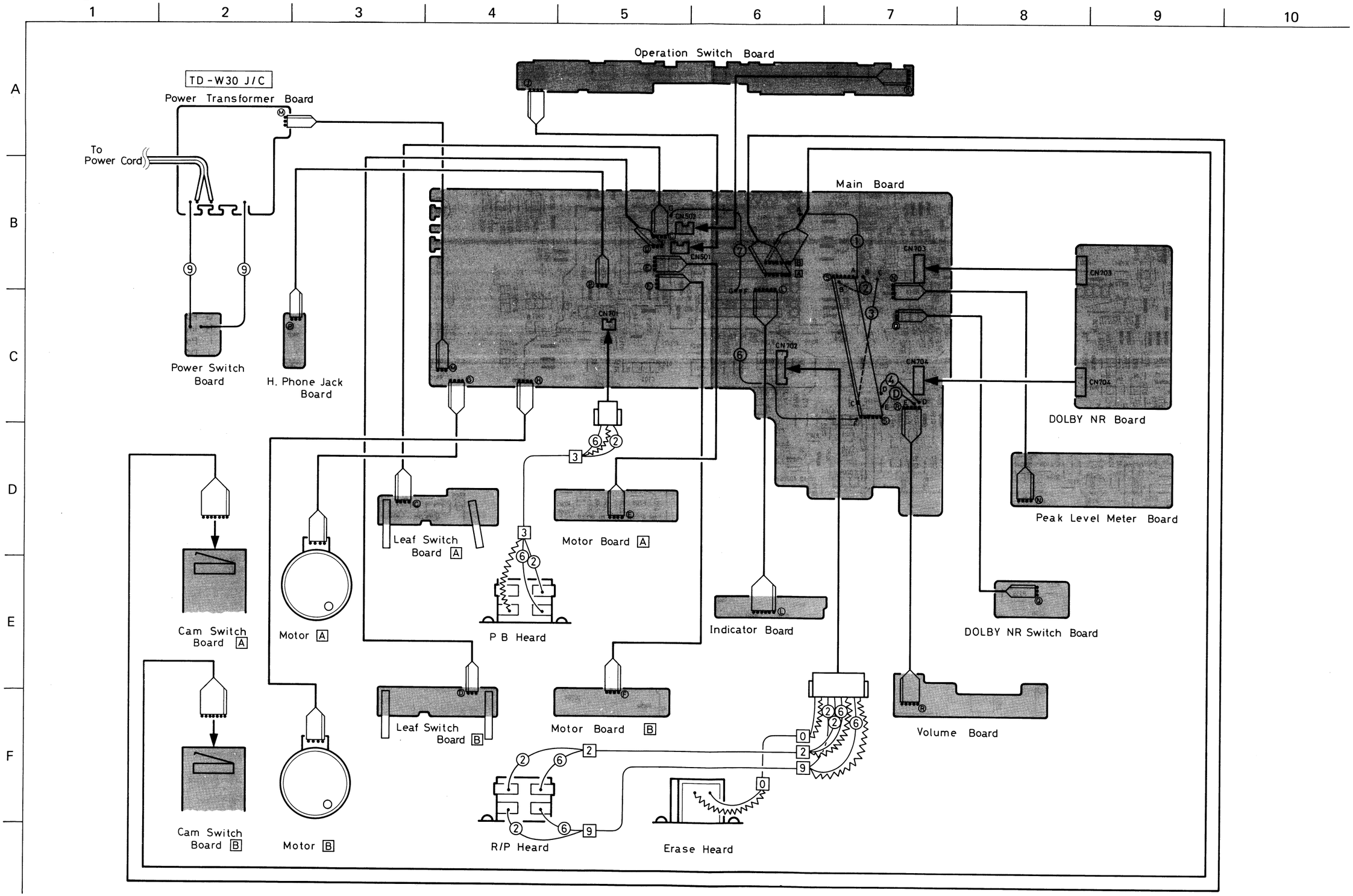
Standard Schematic Diagram



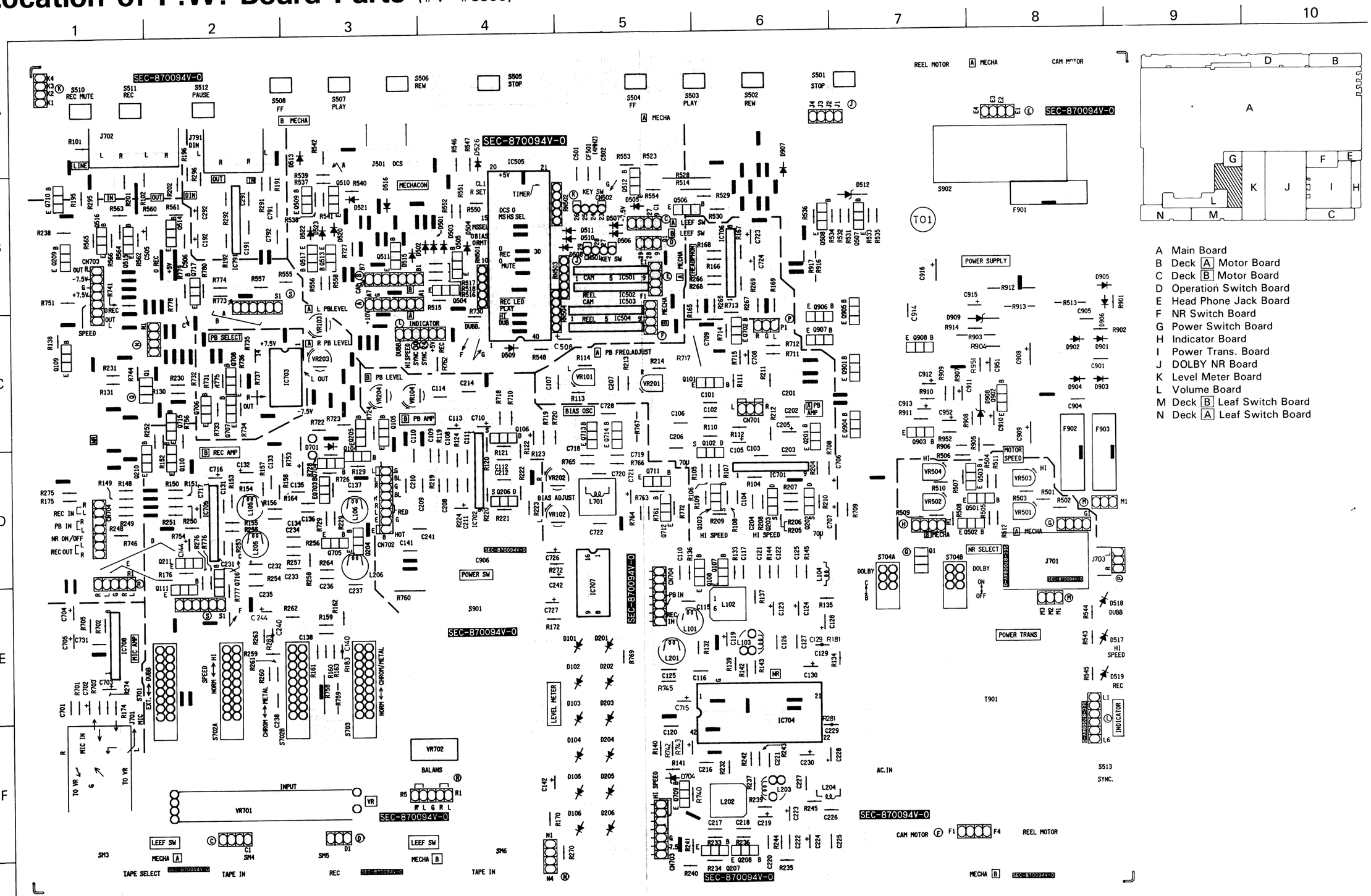
Wiring Connections



Wiring Connections

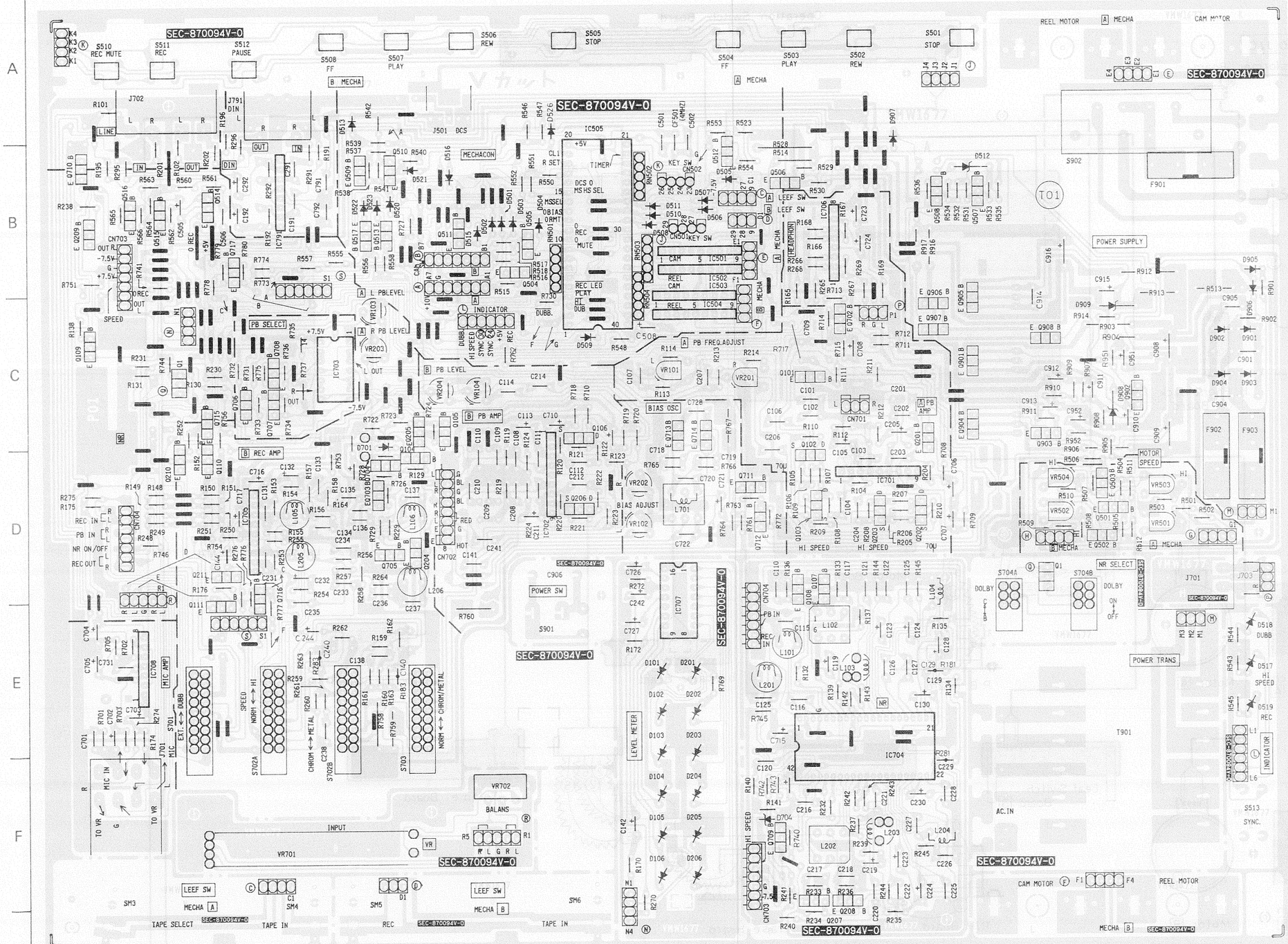


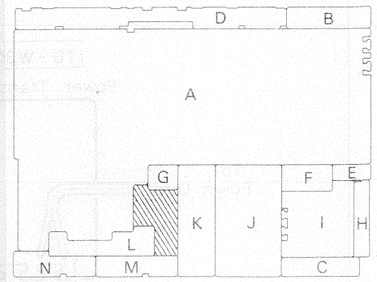
Location of P.W. Board Parts (#1~#3500)



A Main Board
B Deck [A] Motor Board
C Deck [B] Motor Board
D Operation Switch Board
E Head Phone Jack Board
F NR Switch Board
G Power Switch Board
H Indicator Board
I Power Trans. Board
J DOLBY NR Board
K Level Meter Board
L Volume Board
M Deck [B] Leaf Switch Board
N Deck [A] Leaf Switch Board

Location of P.W. Board Parts (#1~#3500)





A Main Board
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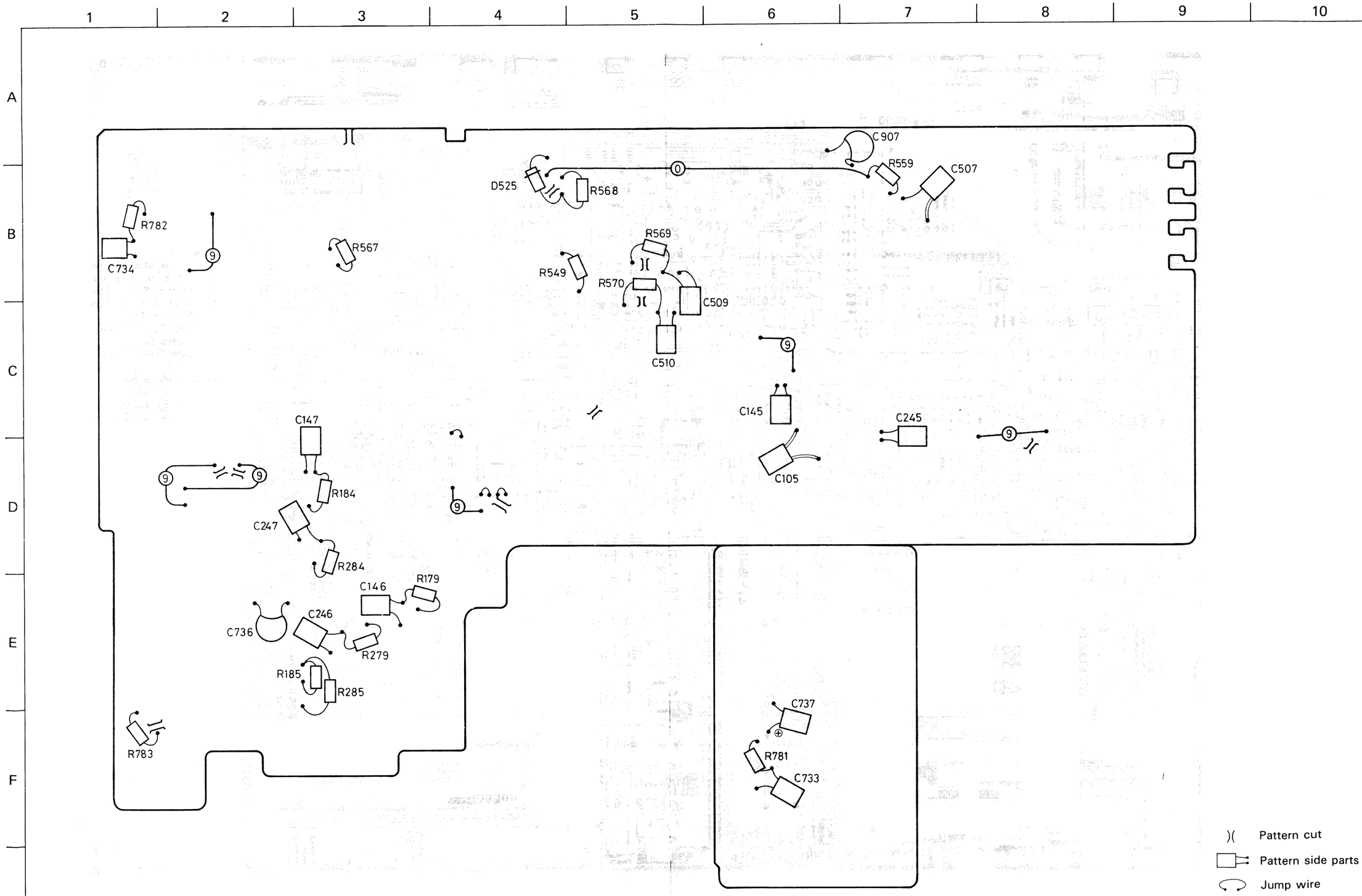
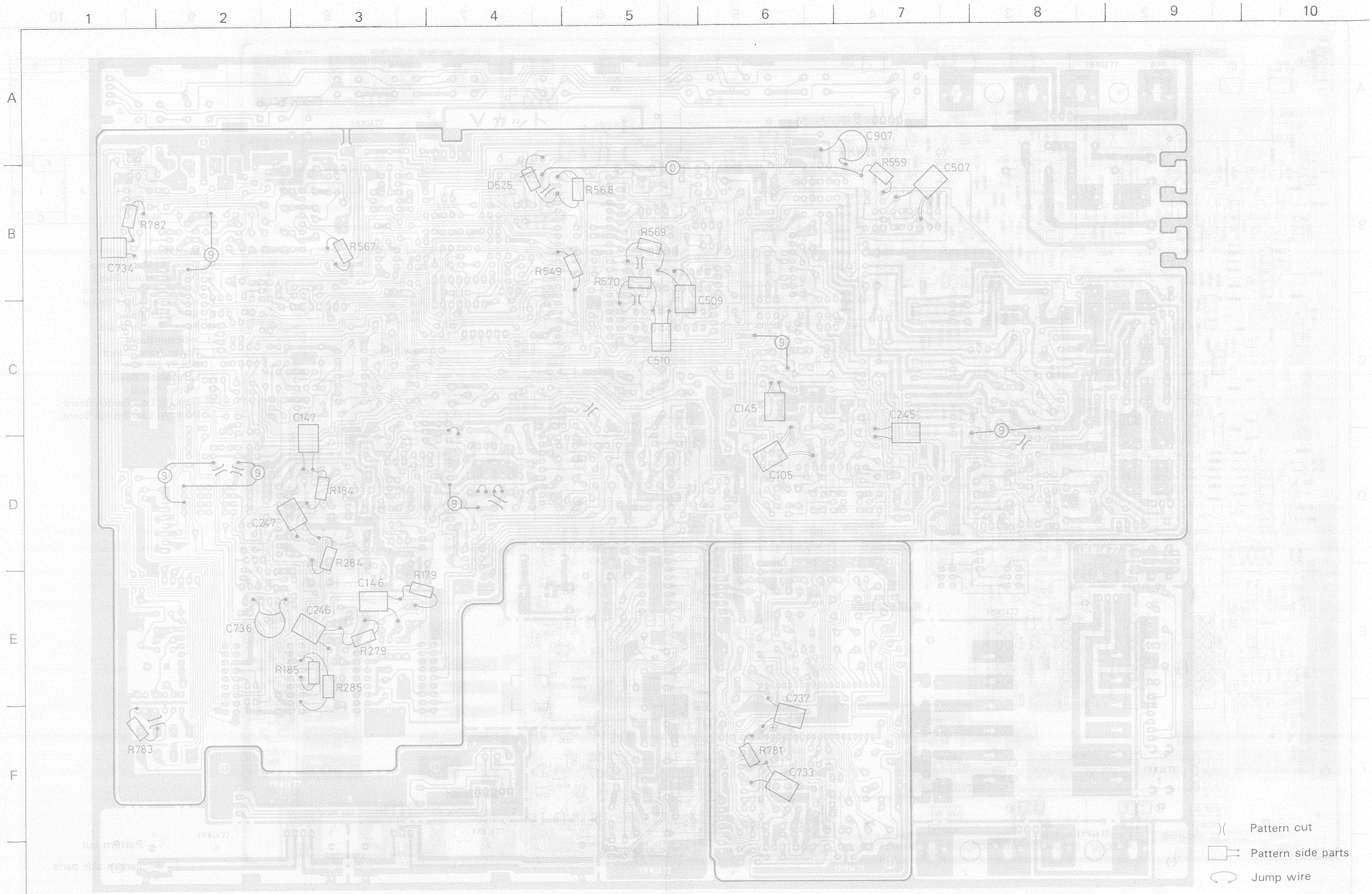
K Level Meter Board
L Volume Board
M Deck [B] Leaf Switch Board
N Deck [A] Leaf Switch Board

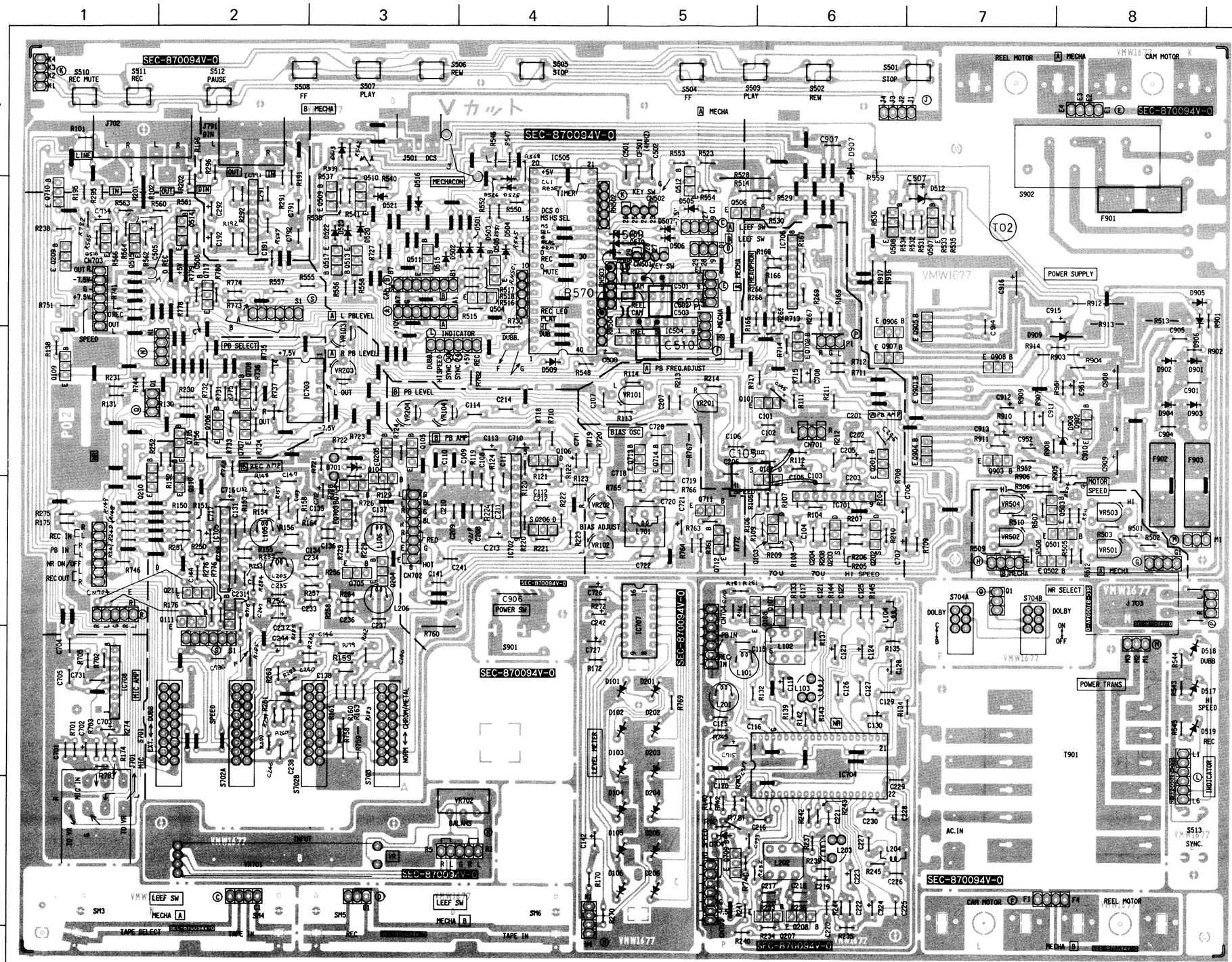
Pattern Side Parts (# 1 ~ # 3500)



Pattern Side Parts (# 1 ~ # 3500)



(#3501～)



A Main Board
B Deck [A] Motor Board
C Deck [B] Motor Board
D Operation Switch Board
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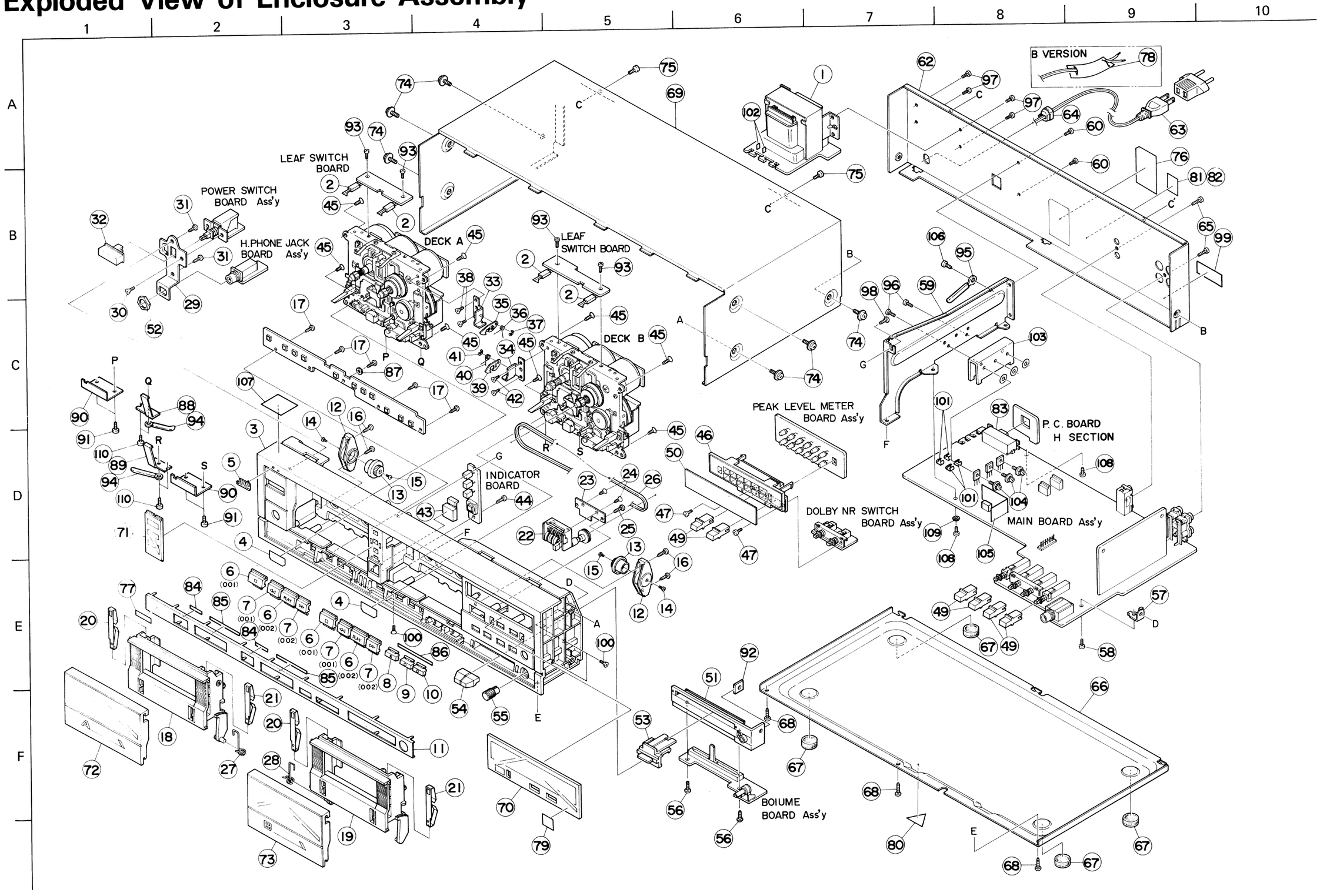
K Level Meter Board
L Volume Board
M Deck [B] Leaf Switch Board
N Deck [A] Leaf Switch Board

)(Pattern cut
Pattern side parts

Exploded View of Enclosure Assembly



P.C. Board Parts List

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

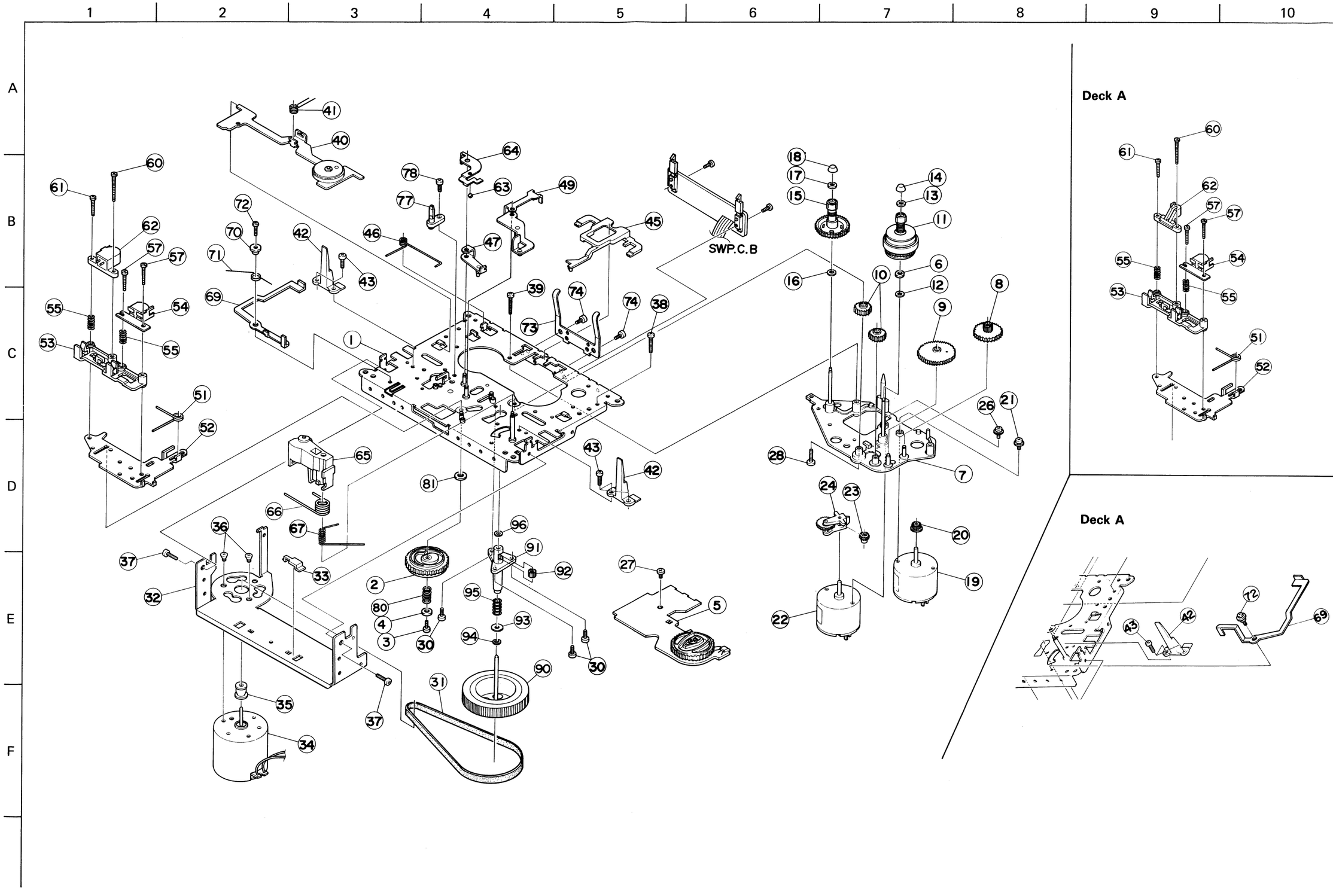
⚠	REF. NO	PARTS NO.	PARTS NAME	QTY
	IC705	AN6555	I.C. (M)	1
	IC701,IC702	AN6557	I.C.	2
⚠	IC501-IC504	BA6208A	I.C	4
	IC704	HA12088NT	DOLBY IC	1
	IC707	IR2E27A	I.C	1
	IC706,IC708	M5218L	I.C	3
	IC791			
	IC703	UPD4066BC	I.C	1
	IC505	UPD7508HC-073	I.C. (M)	1
	Q502	QCS11HJ-330	C.CAPACITOR	0
	Q501 ,Q502	2SA564(R,S)TA	TRANSISTOR	13
	Q514 -Q516			
	Q702 ,Q706			
	Q708 ,Q710			
	Q711 ,Q715			
	Q716 ,Q903			
⚠	Q906 ,Q907	2SA952(L,K)-T	TRANSISTOR	2
	Q703	2SA992(F,E,U)-T	TRANSISTOR	1
⚠	Q904	2SB772(Q,P)	SI.TRANSISTOR	1
	Q513 ,Q517	2SC1684(R,S)	TRANSISTOR	2
	Q101 ,Q107	2SC1684(R,S)TA	TRANSISTOR	23
	Q108 ,Q110			
	Q201 ,Q207			
	Q208 ,Q210			
	Q503 -Q505			
	Q507 -Q512			
	Q704 ,Q707			
	Q709 ,Q717			
	Q902 ,Q908			
	Q104 ,Q204	2SC1845(E,U)-T	TRANSISTOR	3
	Q705			
⚠	Q109 ,Q111	2SC2001(L,K)-T	TRANSISTOR	6
	Q209 ,Q211			
	Q506 ,Q712			
	Q713 ,Q714	2SC2785(E,F)-T	TRANSISTOR	2
	Q105 ,Q205	2SC945L(P,K)-T	TRANSISTOR	2
⚠	Q901 ,Q905	2SD882(Q,P)	SI.TRANSISTOR	2
	Q102 ,Q103	2SK301(R,S)TA	TRANSISTOR	6
	Q106 ,Q202			
	Q203 ,Q206			
	D525 ,D526	MA165	SI.DIODE	2
	D909	RD11E(B1)	Z DIODE	1
	D512	RD3.6E(B2)	DIODE	1
	D908	RD5.6E(B3)	Z.DIODE	1
	D704	RD9.1E(B2)	ZENER DIODE	1
	D517 ,D518	SLB55DU50F130	L.E.D.	2
	D519	SLB55VR50F130	LED	1
	D101 -D103	SLR-55DC50F124	L.E.D.	6
	D201 -D203			
	D104 -D106	SLR-55VC50F124	L.E.D.	6
	D204 -D206			
	D501 -D511	1SS254T-77	SI.DIODE	25
	D513 ,D515			
	D516 ,D520			
	D521 -D524			
	D701 ,D905			
	D906 ,D907			
	D525 ,D526			
⚠	D901 -D904	11E1-TB2	SI DIODE	4
	VR702	QVCA22W-V25	V.RESISTOR	1
	VR103,VR104	QVPA601-472A	V.RESISTOR	4
	VR203,VR204			
	VR102,VR202	QVPA601-473A	V.RESISTOR	2
	VR101,VR201	QVZ1802-472	V RESISTOR	2
	VR501,VR502	QVZ3512-103	V.RESISTOR	2
	VR503,VR504	QVZ3512-203	V.RESISTOR	2
	VR701	QVZ5017-V03	V.RESISTOR	1
	CN501,CN502	E04365-004	PLUG	2
	CN703	QMV5004-007	CONNECTOR	2
	CN701	QMV5005-003	CONNECTOR	1
	CN702	QMV5005-008	CONNECTOR	1
	S513	QSP0022-001	PUSH SWITCH	1
	S501 -S508	QSP0301-001V	PUSH SWITCH	8
	S510 -S512	QSP1A11-V01M	PUSH SWITCH	3
⚠	S901	QSP4C11-V01	PUSH SWITCH	1
⚠	S901	QSP4C11-V01BS	PUSH SW	1
	S902	QSS2325-108	SLIDE SWITCH	2
	S703	QSTM101-V01	PUSH SWITCH	1
	S701	QSTM101-V02	PUSH SWITCH	1
	S704	QSTM261-V01	PUSH SWITCH	1
	S702	QSTM261-V02	PUSH SWITCH	1
	L701	VQH1008-014	OSC COIL	1
	L101 ,L106	VQP0001-183S	INDUCTOR	4
	L201 ,L206			
	L105 ,L205	VQP0001-332S	INDUCTOR	2
	L104 ,L204	VQP0003-471	INDUCTOR	2

⚠	REF. NO	PARTS NO.	PARTS NAME	QTY
	L103 ,L203	VQZ0013-001S	FILTER	2
	L102 ,L202	VQZ0016-001	FILTER	2
	R514	QRD129J-1R0	CARBON RESISTOR	1
⚠	R758	QRD129J-151	C RESISTOR	1
⚠	R903 ,R906	QRD129J-4R7	C RESISTOR	2
	R507 ,R717	QRD141J-223S	CARBON RESISTOR	2
	R720	QRD144J-124S	C RESISTOR	1
⚠	R513 ,R916	QRD149J-1R0S	CARBON RESISTOR	3
	R917			
⚠	R760 ,R767	QRD149J-100S	CARBON RESISTOR	2
⚠	R759	QRD149J-121S	CARBON RESISTOR	1
⚠	R913	QRD149J-331S	CARBON RESISTOR	1
	R743 ,R745	QRD161J-100	CARBON RESISTOR	2
	R124 ,R145	QRD161J-101	CARBON RESISTOR	6
	R224 ,R245			
	R705 ,R783			
	R140 ,R143	QRD161J-102	CARBON RESISTOR	9
	R174 ,R240			
	R243 ,R274			
	R531 ,R561			
	R723			
	R172 ,R191	QRD161J-103	CARBON RESISTOR	31
	R272 ,R291			
	R515 ,R517			
	R523 ,R534			
	R547 -R554			
	R560 ,R568			
	R703 ,R727			
	R728 ,R741			
	R744 ,R751			
	R756 ,R762			
	R772 ,R901			
	R902 ,R908			
	R111 ,R119	QRD161J-104	CARBON RESISTOR	12
	R141 ,R211			
	R219 ,R241			
	R715 ,R730			
	R733 ,R735			
	R736 ,R737			
	R109 ,R110	QRD161J-105	CARBON RESISTOR	14
	R123 ,R133			
	R136 ,R158			
	R192 ,R209			
	R210 ,R223			
	R233 ,R236			
	R258 ,R292			
	R156 ,R256	QRD161J-121	CARBON RESISTOR	2
	R114 ,R138	QRD161J-122	CARBON RESISTOR	5
	R214 ,R238			
	R539			
	R168 ,R268	QRD161J-123	CARBON RESISTOR	2
	R169 ,R269	QRD161J-151	CARBON RESISTOR	2
	R155 ,R161	QRD161J-152	CARBON RESISTOR	8
	R179 ,R255			
	R261 ,R279			
	R166 ,R266	QRD161J-153	CARBON RESISTOR	4
	R501 ,R508			
	R106 ,R113	QRD161J-182	CARBON RESISTOR	14
	R159 ,R162			
	R176 ,R185			
	R206 ,R213			
	R259 ,R262			
	R276 ,R285			
	R764 ,R907			
	R101 ,R149	QRD161J-183	CARBON RESISTOR	33
	R154 ,R164			
	R201 ,R249			
	R254 ,R264			
	R541			
	R504 ,R511	QRD161J-184	CARBON RESISTOR	2
	R742	QRD161J-203	CARBON RESISTOR	2
	R914	QRD161J-221	CARBON RESISTOR	1
	R105 ,R132	QRD161J-222	CARBON RESISTOR	13
	R152 ,R205			
	R232 ,R252			
	R532 ,R533			
	R559 ,R763			
	R909 ,R911			
	R146 ,R151	QRD161J-223	CARBON RESISTOR	29
	R170 ,R246			
	R251 ,R270			
	R503 ,R506			
	R510 ,R516			
	R518 ,R538			
	R546 ,R556			

⚠	REF. NO	PARTS NO.	PARTS NAME	QTY
	R558 ,R565			
	R746			
	R167 ,R267	QRD161J-224	CARBON RESISTOR	4
	R505 ,R512			
	R101 ,R201	QRD161J-273	CARBON RESISTOR	14
	R765 ,R766			
	R535 ,R543	QRD161J-331	CARBON RESISTOE	3
	R544			
	R102 ,R107	QRD161J-332	CARBON RESISTOR	23
	R129 ,R142			
	R150 ,R160			
	R163 ,R196			
	R202 ,R207			
	R229 ,R242			
	R250 ,R260			
	R263 ,R296			
	R725 ,R773			
	R774 ,R781			
	R540 ,R555	QRD161J-333	CARBON RESISTOR	8
	R557 ,R714			
	R731 ,R732			
	R734 ,R775			
	R157 ,R257	QRD161J-391	CARBON RESISTOR	17
	R530 ,R536			
	R769			
	R130 ,R230	QRD161J-392	CARBON RESISTOR	4
	R711 ,R761			
	R104 ,R120	QRD161J-394	C RESISTOR	6
	R175 ,R204			
	R220 ,R275			
	R545 ,R708	QRD161J-471	CARBON RESISTOR	16
	R709 ,R718			
	R719 ,R721			
	R729 ,R753			
	R754 ,R782			
	R904 ,R905			
	R910 ,R951			
	R952			
	R108 ,R134	QRD161J-472	CARBON RESISTOR	27
	R137 ,R176			
	R208 ,R234			
	R237 ,R276			
	R564 ,R701			
	R702 ,R726			
	R739			
	R153 ,R195	QRD161J-473	CARBON RESISTOR	16
	R253 ,R295			
	R537 ,R542			
	R562 ,R563			
	R566 ,R567			
	R713 ,R776			
	R777 -R780			
	R121 ,R221	QRD161J-512	CARBON RESISTOR	2
	R112 ,R212	QRD161J-560	CARBON RESISTOR	2
	R529	QRD161J-561	CARBON RESISTOR	1
	R131 ,R183	QRD161J-562	CARBON RESISTOR	9
	R231 ,R283			
	R569 ,R570			
	R740			
	R184 ,R284	QRD161J-563	CARBON RESISTOR	4
	R722 ,R724	QRD161J-681	CARBON RESISTOR	2
	R122 ,R148	QRD161J-682	CARBON RESISTOR	17
	R222 ,R248			
	R712			
	R135 ,R144	QRD161J-683	CARBON RESISTOR	7
	R235 ,R244			
	R502 ,R509			
	R710			
	R139 ,R181	QRD161J-822	CARBON RESISTOR	6
	R239 ,R281			
	R165 ,R265	QRD161J-823	CARBON RESISTOR	2
⚠	R912	QRX019J-4R7	M.F.RESISTOR	1
⚠	R528	QRX019J-6R8	M.F.RESISTOR	1
	RN501-RN504	VCR0003-004	C.R.BLOCK	4
	CF501	EFO-A4ROM02A2	CERA LOCK	1
	C107 ,C207	QCC11EM-103	C CAPACITOR	2
	C506 ,C701	QCF11HP-103	C CAPACITOR	13
	C704 ,C705			
	C736 ,C791			
	C792 ,C901			
	C904 ,C905			
	C907 ,C914			
	C103 ,C111	QCS11HJ-151	C.CAPACITOR	7
	C115 ,C203			
	C211 ,C215			

⚠	REF. NO	PARTS NO.	PARTS NAME	QTY
	C731			
	C108 ,C141	QCS11HJ-221	C.CAPACITOR	4
	C208 ,C241			
	C131 ,C231	QCS11HJ-330	C.CAPACITOR	4
	C501			
	C102 ,C110	QCS11HJ-331	C.CAPACITOR	4
	C202 ,C210			
	C101 ,C136	QCS11HJ-471	C.CAPACITOR	16
	C201 ,C236			
	C109 ,C209	QCS11HJ-561	C.CAPACITOR	2
	C137 ,C237	QCS12HJ-151V	C CAPACITOR	2
⚠	C906	QCZ9014-103	C.CAPACITOR	2
⚠	C906	QCZ9015-103	C.CAPACITOR	1
	C123 ,C130	QEB51HM-684M	LLC E CAPACITOR	4
	C223 ,C230			
	C737	QEE81CM-475	TS E CAPACITOR	1
	C114 ,C120	QEN41EM-475	NP.E.CAPACITOR	8
	C129 ,C135			
	C214 ,C220			
	C229 ,C235			
	C106 ,C206	QEN61EM-106Z	NP.E.CAPACITOR	2
	C113 ,C213	QET41AR-107	E.CAPACITOR	10
	C508 ,C714			
	C715 ,C735			
	C910 -C913			
	C105 ,C205	QET41AR-227	E CAPACITOR	2
	C144 ,C244	QET41AR-476	E CAPACITOR	8
	C706 ,C707			
	C710 ,C711			
	C716 ,C717			
	C712	QET41AR-477	E CAPACITOR	1
	C507	QET41CR-106	E CAPACITOR	1
	C721 ,C915	QET41CR-476	E CAPACITOR	4
	C951 ,C952			
	C505 ,C703	QET41ER-106	E CAP	2
⚠	C909	QET41ER-108	E CAPACITOR	1
	C726 ,C727	QET41ER-226	E CAPACITOR	2
⚠	C908	QET41ER-228	E CAPACITOR	1
	C119 ,C219	QET41ER-475	E.CAPACITOR	2
	C145 ,C192	QET41HR-105	E.CAPACITOR	9
	C245 ,C292			
	C509 ,C510			
	C702 ,C733			
	C734			
	C132 ,C142	QET41HR-224	E.CAPACITOR	4
	C232 ,C242			
	C708	QET41HR-475	E CAPACITOR	1
	C916	QET51AR-109N	E.CAPACITOR	1
	C124 ,C128	QET61HR-225ZM	E.CAPACITOR	4
	C224 ,C228			
	C117 ,C118	QFN41HJ-102	M.CAPACITOR	4
	C217 ,C218			
	C147 ,C247	QFN41HJ-182	M.CAPACITOR	2
	C140 ,C240	QFN41HJ-183	M.CAPACITOR	2
	C116 ,C216	QFN41HJ-222	M.CAPACITOR	4
	C718 ,C719			
	C728	QFN41HJ-332	M.CAPACITOR	1
	C146 ,C246	QFN41HJ-473	M.CAPACITOR	2
	C722	QFP82AJ-822	PP CAPACITOR	1
	C104 ,C112	QFV41HJ-103	TF.CAPACITOR	10
	C121 ,C126			
	C134 ,C204			
	C212 ,C221			
	C226 ,C234			
	C191 ,C291	QFV41HJ-104	TF.CAPACITOR	2
	C122 ,C125	QFV41HJ-183	TF.CAPACITOR	4
	C222 ,C225			
	C720	QFV41HJ-223	TF.CAPACITOR	1
	C127 ,C227	QFV41HJ-823	TF CAPACITOR	2
	C133 ,C233	QFV71HJ-123ZM	T.F.CAPACITOR	14
	C138 ,C238	QFV71HJ-563ZM	T.F.CAPACITOR	14
⚠	C906	QFZ9010-103	M.CAPACITOR	4
	J702	EMN00TV-402A	PIN JACK	1
	J791	QMC9014-007	DIN SOCKET	1
	J501	QMS3533-001	JACK	1
	J703	QMS6302-122	JACK	1
	J701	QMS6313-017	JACK	1

Exploded View of Mechanism Assembly (Deck B)



Enclosure Assembly Parts List

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
		VND4003-061	FUSE LABEL		1
		VND4003-061	FUSE LABEL		1
		VND4003-061	FUSE LABEL		1
		VND4003-061	FUSE LABEL		1
⚠	1	VTP54A3-041B	POWER TRANS.	T901(TD-W30C/J/U)	1
⚠		VTP54C3-051B	POWER TRANS.	T901(TD-W30A/E/G/)	1
⚠		VTP54C3-051BBS	POWER TRANS.	T901(TD-W30B)	1
	2	VSH1140-002	LEAF SWITCH	SM5,SM6	2
		VSH1140-002	LEAF SWITCH	SM3,SM4	2
	3	VJC1523-001UL	FRONT PANEL	TD-W30J	1
		VJC1523-002	FRONT PANEL	TD-W30A/B/C/E/G/U)	1
	4	VJD4005-002	REFLECTION PLAT	PRATE	2
	5	E72968-001	MARK		1
	6-1	VXP4419-001	PUSH BUTTON		1
	6-2	VXP4419-002			1
	7-1	VXP4420-001	PUSH BUTTON		1
	7-2	VXP4420-002			1
	8	VXP4417-005	PUSH KNOB	PAUSE	1
	9	VXP4417-004	PUSH KNOB	REC	1
	10	VXP4417-006	PUSH KNOB	MUTE	1
	11	VJD2288-002	PANEL		1
	12	VYH5134-002	DAMPER HOLDER		2
	13	VYH5133-002	GEAR		2
	14	SPSK1720M	SCREW	FOR DAMPER	2
	15	SBSB2004Z	SCREW	FOR DAMPER	2
	16	SSSF2610Z	SCREW	FOR DAMPER	2
	17	SBSF2608Z	SCREW	FOR BUTTON BOARD	5
	18	VJT2131-001	CASSETTE HOLDER		1
	19	VJT2131-002	CASSETTE HOLDER		1
	20	VKY4382-009	SPRING		2
	21	VKY4382-010	SPRING		2
	22	VKC5188-001T	COUNTER		1
	23	VKL5993-001	COUNTER BRACKET		1
	24	SSSF2605Z	SCREW	FOR COUNTER	2
	25	SBSF3008Z	SCREW	FOR C.BRACKET	1
	26	VKB3000-059	COUNTER BELT		1
	27	VKW4602-001	SPRING		1
	28	VKW4602-002	SPRING		1
	29	VKL5995-001	POWER BRACKET		1
	30	SPSP3004Z	SCREW	FOR POWER BRACKET	1
	31	SBSF3008Z	SCREW	FOR POWER BRACKET	2
	32	E72789-001	POWER KNOB		1
	33	VKL5501-00A	BRACKET ASS'Y	LEFT	1
	34	VKL5500-00B	BRACKET ASS'Y	RIGHT	1
	35	VKL5342-001	LOCK CAM(A)		1
	36	VKW3006-073	SPRING		1
	37	REE2000	E.RING		1
	38	SSST2606Z	SCREW		2
	39	VKL5345-001	LOCK CAM(B)		1
	40	VKW3006-074	SPRING		1
	41	REE2000	E.RING		1
	42	SSST2606Z	SCREW		2
	43	VXP4350-003	PUSH BUTTON	SYNCRO	1
	44	SBSF3008Z	SCREW	FOR LED BOARD	1
	45	SSSF3010Z	SCREW	FOR MECHA.ASS'Y	8
	46	VKS3267-001	HOLDER		1
	47	SPSP3006Z	SCREW	FOR DOLBY SWITCH	2
	49	VXP4346-001	PUSH BUTTON		6
	50	VJD4990-001	PLATE		1
	51	VKS3268-001	VOLUME HOLDER	FOR INPUT	1
	52	VKZ4150-001	SPECIAL NUT	FOR HEAD PHONE	1
	53	VKS4783-002	SLIDE LEVER	FOR INPUT	1
	54	VXS3017-001	SLIDE KNOB	FOR INPUT	1
	55	VXL4276-001	KNOB	FOR BALANCE	1
	56	SBSF3008Z	SCREW	FOR VOLUME HOLDER	2
	57	VYH4638-001	BRACKET	FOR AMP.BOARD	1
	58	SPSP3004Z	SCREW	FOR BRACKET	1
	59	VKL3750-001	CENTER CHASSIS		1
	60	SDST3006Z	SCREW		2
	61	SDST3006Z	SCREW	FOR BOARD	2
	62	VJC2240-001	REAR PANEL	TD-W30A/B/E/U	1
		VJC2240-002	REAR PANEL	TD-W30C/J	1
		VJC2240-003	REAR PANEL	TD-W30G	1
⚠	63	QMP1200-200	POWER CORD	TD-W30C/J	1
⚠		QMP2560-200	POWER CORD	TD-W30A	1
⚠		QMP3900-200	POWER CORD	TD-W30E/G	1
⚠		QMP7600-200	POWER CORD	TD-W30U	1
⚠		QMP9017-008BS	AC CORD	TD-W30B	1
⚠	64	QHS3876-162	S.R.BUSHING	EXCEPT FOR"B"VERSION	1
		QHS3876-162BS	S.R.BUSHING	B VERSION	1
	65	SDSF3008Z	SCREW	FOR JACK	2
	66	VKL2235-002	BOTTOM COVER		1
	67	VJF4003-005	FOOT		4
	68	SBSF3008Z	SCREW	FOR BOTTOM COVER	3
	69	VJC2252-001	TOP COVER		1
	70	VJK3341-001	FINDER	FOR LEVEL METER	1
	71	VJK4268-001	LENS		1
	72	VJT2132-001	LID		1
	73	VJT2132-002	LID		1
	74	SDSB4010M	SCREW	FOR TOP COVER	6
	75	SDST3006Z	SCREW	FOR TOP COVER	2
	76	VYN2175-002PA	NAME PLATE	TD-W30B	1
		VYN2175-003PA	NAME PLATE	TD-W30A	1
		VYN2175-004PK	NAME PLATE	TD-W30C	1
		VYN2175-005PA	NAME PLATE	TD-W30E	1
		VYN2175-006PA	NAME PLATE	TD-W30J	1
		VYN2175-007PA	NAME PLATE	TD-W30U	1
		VYN2175-008PA	NAME PLATE	TD-W30G	1
	77	TJL000420-01	CAUTION LABEL	TD-W30B	1
	78	QZL1002-003	WARNING LABEL	TD-W30B	1
	79	VNC5004-001	MARK STICKER	TD-W30B/E/G	1
	80	VND4113-001	G.CAUTION CARD	TD-W30B/J	1
	81	T44362-001	CSA LABEL	TD-W30C	1
	82	VND4037-002	F MARK	TD-W30G	1
	83	QSS2325-108	SLIDE SWITCH	S902(TD-W30A/E/G)	1
		QSS2325-108BS	SLIDE SWITCH	S902(TD-W30B)	1
	84	VYSS1R5-027	SPACER		2
	85	VYSS1R5-028	SPACER		2
	86	VYSS102-002	SPACER		1
	87	Q03095-206	WASHER		1
	88	VKY4497-001	SPRING		1
	89	VKY4497-002	SPRING		1
	90	VYH6180-001	SHIELD PLATE		2
	91	SDST2603Z	SCREW		4
	92	VYH6183-001	PLATE		1
	93	SDST2608Z	SCREW		4
	94	VKZ4001-007	WIRE HOLDER		3
	95	VKZ4001-011	WIRE HOLDER		1
	96	SDST3006Z	SCREW		2
	97	LPSP3006Z	SCREW		4
	98	SBSF3008Z	SCREW		1
	99	VND4205-002	CAUTION		1
	100	SSST3008Z	SCREW		3
	101	VMZ0043-001S	FUSE CLAMP	TD-W30A/B/E/G/U	4
	102	VMZ0034-002	TAB	FOR POWER BOARD	2
	103	VMH4011-002	HEAT SINK		1
	104	DPSP3008Z	SCREW	FOR HEAT SINK	3
	105	VYH6181-001	SHIELD CASE		1
	106	SDST3006Z	SCREW		1
	107	VND4006-017	CAUTION LABEL		1

Mechanism Parts List (Deck B)

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	1	VKL2253-00F	CHASSIS BASE		1
	2	VKS2122-001	P.ROLLER CAM		1
	3	VKZ4340-001	SCREW		1
	4	VKZ4284-003	WASHER		1
	5	VKZ3127-00F	CAM SWITCH ASSY	CAM SWITCH ASS'Y	1
	6	Q03093-834	WASHER		1
	7	VKL2173-00C	DISK BASE ASS'Y		1
	8	VKR3001-001	GEAR(2)		1
	9	VKR3001-002	GEAR(2)		1
	10	VKR3000-001	GEAR(1)		2
	11	VKR4312-00B	REEL DISK ASS'Y		1
	12	VKZ4003-010	FELT	BACK TENSION	1
	13	VKR4170-001	RING		1
	14	VKS4131-001	REEL STOPPER		1
	15	VKR4318-00A	R.DISK ASS'Y		1
	16	VKZ4003-010	FELT	BACK TENSION	1
	17	VKR4170-001	RING		1
	18	VKS4131-001	REEL STOPPER		1
⚠	19	MMN-6C2RK	DC MOTOR	CAM	1
	20	VKR4326-001	MOTOR GEAR	CAM MOTOR	1
	21	SDSP2606Z	SCREW	CAM MOTOR	1
⚠	22	MMN-6C2RK	DC MOTOR	REEL	1
	23	VKR3000-003	GEAR(1)	REEL MOTOR	1
	24	VKS4503-00D	ARM		1
	26	SDSP2606Z	SCREW	REEL MOTOR	1
	27	SDST2604Z	SCREW	CAM SWITCH ASS'Y	1
	28	SDST2608Z	SCREW	D.BASE UNIT	1
	30	SDST2605Z	SCREW		3
	31	VKB3001-027	CAPSTAN BELT(R)	CAPSTAN	1
	32	VKL3682-001	BRACKET		1
	33	VKS4437-001	THRUST PLATE		1
⚠	34	MMA-6B2LWAKX	DC MOTOR	CAPSTAN	1
	35	VKR4364-002	MOTOR PULLEY		1
	36	SSSP2604Z	SCREW	CAPSTAN MOTOR	2
	37	SDST2606Z	SCREW	F.M.BRACKET	2
	38	SPSP2615Z	SCREW	CAM MOTOR	1
	39	SPSP2613Z	SCREW	REEL MOTOR	1
	40	VKL3411-00B	TAKEUP IDLER		1
	41	VKW3006-099	TORSION SPRING	TAKE-UP	1
	42	VKS4901-001	CASSETTE GUIDE		2
	43	SDST2606Z	SCREW	CASSETTE GUIDE	4
	45	VKS3162-003	BRAKE BAR		1
	46	VKW4380-001	TORSION SPRING		1
	47	VKL5316-00E	H.BASE ARM ASSY		1
	49	VKL3421-00B	P.R.LEVER ASS'Y		1
	51	VKW4467-001	TORSION SPRING		1
	52	VKL3685-002	HEAD BASE		1
	53	VKS2123-001	BASE		1
	54	VGH0421-015	R/P HEAD	B-MECHA.	1
	55	VKW3001-080	SPRING		2
	57	SPSX2011N	SCREW		2
	60	SPSP2012Z	SCREW		1
	61	SPSX2012N	SCREW		1
	62	VGH0212-104	ERASER HEAD		1
	63	T41615-004	STEEL BALL		1

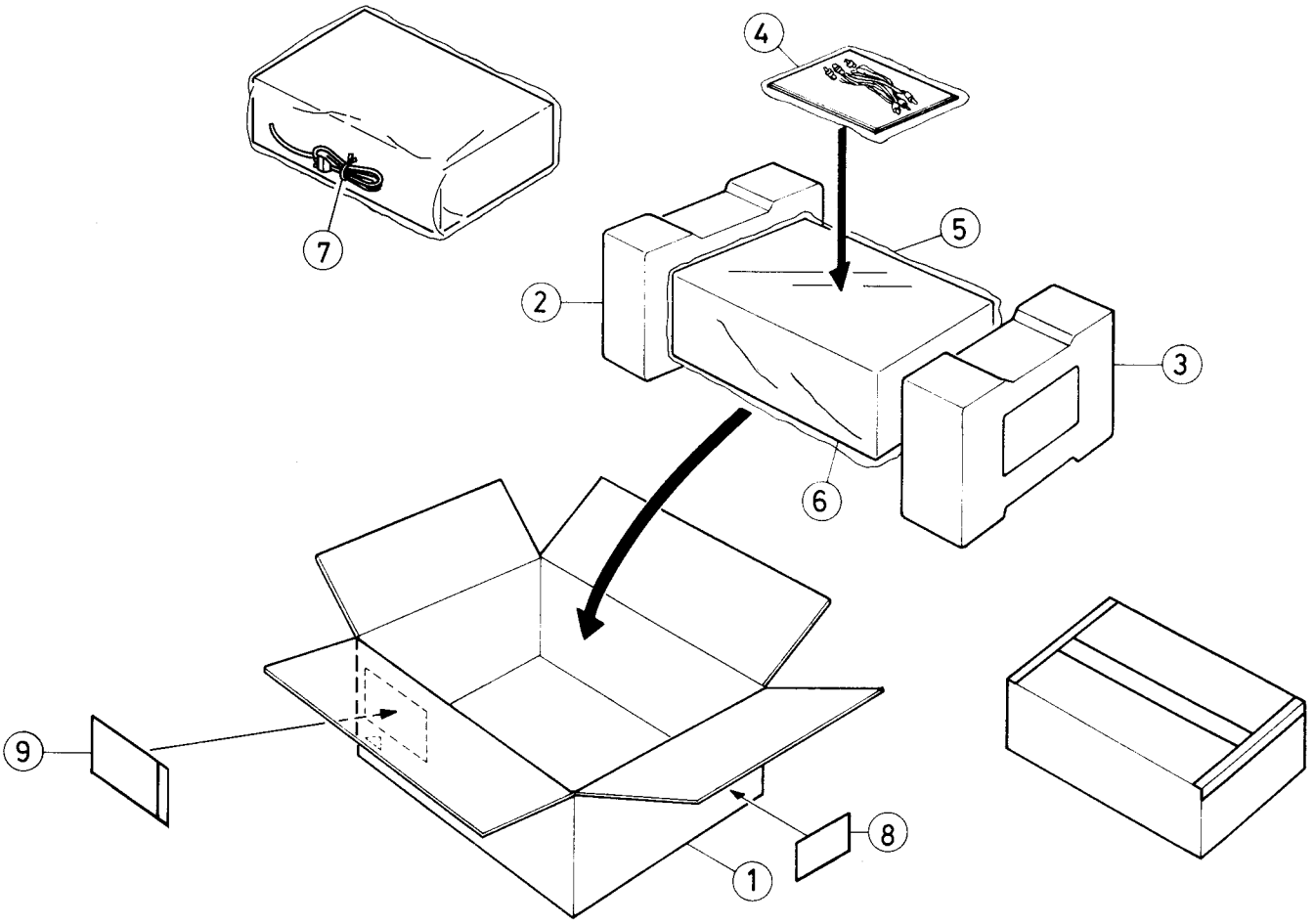
⚠	REF.	PARTS NO.	PARTS NAME	REMARKS	QTY
	64	VKY4425-002	SPRING PLATE		1
	65	VKP4169-00B	P.R.ARM ASS'Y		1
	66	VKW3006-130	SPRING	PINCH ROLLER	1
	67	VKW3006-057	TORSION SPRING	RETURN	1
	69	VKL6020-001	DOOR SAFETY		1
	70	VKH4418-001	COLLAR		1
	71	VKW3006-061	TORSION SPRING		1
	72	SDST2605Z	SCREW		1
	73	VKY4279-001	PACK SPRING		1
	74	SDST2605Z	SCREW		2
	77	VKS4512-002	GUIDE		1
	78	SDST2606Z	SCREW		1
	80	VKW3001-159	SPRING		1
	81	VKZ4003-010	FELT		1
	90	VKF3138-00A	FLY WHEEL		1
	91	VKF4122-00C	CAPS.METAL ASSY		1
	92	VKR4180-002	ROLLER	TAKE-UP	1
	93	Q03093-622	WASHER	THRUST	1
	94	Q03093-827	WASHER	THRUST	1
	95	VKW3001-010	SPRING	THRUST	1
	96	Q03093-522	WASHER	OIL CUT	1
	ICM1	DN6838A	I.C.		1

Comparition Table Between Deck [A] and Deck [B]

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

Ref. No.	Parts No. for Deck A	Parts No. for Deck B	Parts Name	Remarks
62	VKS4710-001	VGH0212-104	Dumy/Erase Head	an Exclusive use
67	VKW3006-142	VKW3006-057	Tosion Spring	〃
69	VKL6028-001	VKL6020-001	Door Safety	〃
70	————	VKH4418-001	Flange Coller	〃
71	————	VKW3006-061	Torsion Spring	〃
72	VKZ4323-001	SDST2605Z	Screw	〃

Packing



Packing Parts List

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one.

⚠	Ref. No.	Parts No.	Parts Name	Remarks	Q'ty
	1	VPC2175-002	Carton	TD-W30 B	1
	〃	〃 -003	〃	TD-W30 A	1
	〃	〃 -004	〃	TD-W30 C	1
	〃	〃 -005	〃	TD-W30 E	1
	〃	〃 -006	〃	TD-W30 J	1
	〃	〃 -007	〃	TD-W30 U	1
	〃	〃 -008	〃	TD-W30 G	1
	2	VPH2241-001	Cushion		1
	3	VPH2242-001	〃		1
	4	VPE3005-007	Poly Bag	for Instruction Book	1
	5	VPE3005-026	〃	for Unit	1
	6	VPK4002-006	Sheet	for Unit	1
	7	Q04141H	Wire Clamp	for Power Cord	1
	8	VPZ4001-001	Serial Ticket	Except C/J Version	1
	〃	〃 -001	〃	C/J Version	2
	9	E66416-003	Envelope	J/U (for PX, EES) Version	1

Accessories

⚠ parts are safety assurance parts.
When replacing those parts, make sure to use the specified one

⚠	Parts No.	Parts Name	Remarks	Q'ty
	VNN2175-211	Instruction Book	TD-W30 B/E/G	1
	〃 -621	〃	TD-W30 A/C/J/U	1
	〃 -411	〃	TD-W30 E (Netherlands/Belgium)	1
	BT20060	Warranty Card	TD-W30 B	1
	BT20066	〃	TD-W30 B/G (for JED)	1
	BT20029C	〃	TD-W30 A	1
	BT20025H	〃	TD-W30 C	1
	BT20047C	〃	TD-W30 J/U (for PX, EES)	1
	BT20064	〃	TD-W30 G (for JED)	1
	BT20071A	Service Center List	TD-W30 C	1
	BT20046B	Special Reply Card	TD-W30 J/U	1
	BT20044E	Safety Guide		1
	VNC1200-002	Copyright Law Warning	TD-W30 C	1
	VNC5311-203	Caution Card	TD-W30 U (for EES)	1
	VNC5311-204	〃	TD-W30 U (for PX)	1
	VNC2200-013	Instruction Sheet	TD-W30 G	1
	VMP0039-00B	Pin Cord		1
	EWP805-001	Remote Wire		1
	V04062-001	Simens Plug (2)	TD-W30 U	1

JVC
VICTOR COMPANY OF JAPAN, LIMITED
RADIO & RECORDING MACHINE DIVISION 10-1, 1-chome, Ohwatari-cho, Maebashi-city, Japan

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